

Ali Ghorbani Mohammad Ali Sarlak

Barriers of E-commerce Acceptance in Export

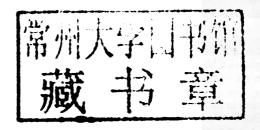
Co-structure, Content and Context Categories



Ali Ghorbani Mohammad Ali Sarlak

Barriers of E-commerce Acceptance in Export

Co-structure, Content and Context Categories



LAP LAMBERT Academic Publishing

Impressum/Imprint (nur für Deutschland/only for Germany)

Bibliografische Information der Deutschen Nationalbibliothek: Die Deutsche Nationalbibliothek verzeichnet diese Publikation in der Deutschen Nationalbibliografie; detaillierte bibliografische Daten sind im Internet über http://dnb.d-nb.de abrufbar.

Alle in diesem Buch genannten Marken und Produktnamen unterliegen warenzeichen-, marken- oder patentrechtlichem Schutz bzw. sind Warenzeichen oder eingetragene Warenzeichen der jeweiligen Inhaber. Die Wiedergabe von Marken, Produktnamen, Gebrauchsnamen, Handelsnamen, Warenbezeichnungen u.s.w. in diesem Werk berechtigt auch ohne besondere Kennzeichnung nicht zu der Annahme, dass solche Namen im Sinne der Warenzeichen- und Markenschutzgesetzgebung als frei zu betrachten wären und daher von jedermann benutzt werden dürften.

Coverbild: www.ingimage.com

Verlag: LAP LAMBERT Academic Publishing GmbH & Co. KG Dudweiler Landstr. 99, 66123 Saarbrücken, Deutschland Telefon +49 681 3720-310, Telefax +49 681 3720-3109

Email: info@lap-publishing.com

Approved by: Iran, Tehran, Payame Noor University, Diss., 2008

Herstellung in Deutschland: Schaltungsdienst Lange o.H.G., Berlin Books on Demand GmbH, Norderstedt Reha GmbH, Saarbrücken Amazon Distribution GmbH, Leipzig ISBN: 978-3-8454-0741-8

Imprint (only for USA, GB)

Bibliographic information published by the Deutsche Nationalbibliothek: The Deutsche Nationalbibliothek lists this publication in the Deutsche Nationalbibliografie; detailed bibliographic data are available in the Internet at http://dnb.d-nb.de.

Any brand names and product names mentioned in this book are subject to trademark, brand or patent protection and are trademarks or registered trademarks of their respective holders. The use of brand names, product names, common names, trade names, product descriptions etc. even without a particular marking in this works is in no way to be construed to mean that such names may be regarded as unrestricted in respect of trademark and brand protection legislation and could thus be used by anyone.

Cover image: www.ingimage.com

Publisher: LAP LAMBERT Academic Publishing GmbH & Co. KG Dudweiler Landstr. 99, 66123 Saarbrücken, Germany Phone +49 681 3720-310, Fax +49 681 3720-3109 Email: info@lap-publishing.com

Printed in the U.S.A.
Printed in the U.K. by (see last page)
ISBN: 978-3-8454-0741-8

Copyright © 2011 by the author and LAP LAMBERT Academic Publishing GmbH & Co. KG and licensors
All rights reserved. Saarbrücken 2011

Table of Content

Chap	oter I:	Preface	5
1-1-	Introd	luction	7
1-2-	State	ment of problem	8
1-3-	Impoi	rtance and necessity of research	10
1-4-	Purpo	ose of research	11
1-5-	Rese	arch Hypotheses	12
1-6-	Limita	ations of research	12
1-7-	Key to	erms and definitions	14
Chap	oter II:	Literature review	15
2-1-	Introd	duction	17
2-2-	Basic	s and concepts of E-commerce	18
2-	2-1-	History of E-commerce	18
2-	2-2-	Definitions of E-commerce	20
2-	2-3-	Difference between E-commerce and EDI	25
2-	2-4-	Advantages of E-commerce	26
2-	2-5-	E-commerce Models	29
2-3-	Iran's	s export and the role of dried fruits in it	31
2-	3-1-	Electronic maturation level of the Iranian's exporter companies	32
2-	-3-2-	Status of the dried fruit exports in Iran	35
2-	-3-3-	East Azerbaijan province and its role in export of dried-fruits	37
2-4-	Expo	rt and its effects on and the impressions taken from E-Commerce	43
2-	-4-1-	Steps in entering global markets	43
2-	-4-2-	Globalization and role of EC in its expansion	46
2-	-4-3-	Effect of E-commerce on exports	51
2-	-4-4-	Motivations for using of EC in exporter companies	53
2-	-4-5-	Informational requirement of E-commerce based exportation	55
2-5-	Mode	els for infrastructures and barriers of EC adoption	56

2-	5-1-	Ihlustrum, Magnusson Scupola's and Tuunainen research	57
2-	5-2-	Javalgi, and Ramsey's research	59
2-	5-3-	Darch, and Lucas's research	62
2-	5-4-	Kuzic, Fisher, and scollery's research	65
2-	5-5-	Eid, Trueman, and Ahmed's research	65
2-	5-6-	Macgregor, and Vrazalic's research	65
2-	5-7-	Research of World Information Technology and Services Alli	iance
		(WITSA)	71
2-	5-8-	Fillis, Johansson and Wagner's research	74
2-	5-9-	Ihlustrum and Nilsson's research	75
2-	5-10-	Stockdale and Standing's research	79
2-	5-11-	Flynn, and Purchase's research	81
2-	5-12-	Chaffy's research	82
2-	5-13-	Mukti's research	82
2-	5-14-	Nath, Akmanligil, Hjelm, Sakaguchi and Schultz's research	82
2-	5-15-	Research of Information Technology Group	83
2-	5-16-	Sathy and Beal's research	83
2-	5-17-	Researches done in Iran	83
2-	5-18-	E-commerce adoption barriers, specific for exporter companie	s 84
	2-	5-18-1- Non-implementation of EC by insurance industry	86
	2-	5-18-2- Customs weakness in making use of E-customs	91
	2-	5-18-3- Shortcomings of banking system regarding EC	94
	2-	5-18-4- Methods of paying values in EC	98
2-6-	Intro	ducing three category (3C) model	100
Cha	pter III	I: Methodology	103
3-1-	Intro	duction	105
3-2-	Rese	earch method	105
3-3-	Varia	bles and theoretical framework of research	106

3-4-	Phas	es in doing the research	111
3-5-	Statistical Population		
3-6-	Sampling method and volume		112
3-7-	Instru	uments of gathering data	113
3-8-	Valid	ity and reliability of instruments	114
3-9-	Meth	ods of data analyzing	116
Chap	oter IV	/: Results	119
4-1-	Intro	duction	121
4-2-	Analy	ysis of the geographical descriptive statistics of responders	121
4-	2-1-	Age groups of companies managers	121
4-	2-2-	Educational level of respondents	122
4-	2-3-	Respondents' work experience in their companies	123
4-	2-4-	Respondents' familiarity with EC	123
4-	2-5-	Rate of EC usage in the companies	124
4-3-	Desc	cribing the examinees	125
4-4-	Resu	ults of analyzing inferential statistics	127
4-	4-1-	Testing hypotheses	127
4-	4-2-	Ranking the barriers	130
4-5-	Fina	model of the research	135
Cha	pter V	: Discussion, conclusion and suggestions	137
5-1-	Intro	duction	139
5-2-	Cond	clusion	139
5	-2-1-	Hypothesis 1	140
5	-2-2-	Hypothesis 2	140
5	-2-3-	Hypothesis 3	141
5-3-	Rese	earch suggestions	142
5	-3-1-	Practical suggestions	142

5-3-2- Scholarship sugges	tions 146
References	149
Appendix (Questionnaire)	159

Table of Content

Chap	oter I:	Preface	5
1-1-	Introd	luction	7
1-2-	State	ment of problem	8
1-3-	Impoi	rtance and necessity of research	10
1-4-	Purpo	ose of research	11
1-5-	Rese	arch Hypotheses	12
1-6-	Limita	ations of research	12
1-7-	Key to	erms and definitions	14
Chap	oter II:	Literature review	15
2-1-	Introd	duction	17
2-2-	Basic	s and concepts of E-commerce	18
2-	2-1-	History of E-commerce	18
2-	2-2-	Definitions of E-commerce	20
2-	2-3-	Difference between E-commerce and EDI	25
2-	2-4-	Advantages of E-commerce	26
2-	2-5-	E-commerce Models	29
2-3-	Iran's	s export and the role of dried fruits in it	31
2-	3-1-	Electronic maturation level of the Iranian's exporter companies	32
2-	-3-2-	Status of the dried fruit exports in Iran	35
2-	-3-3-	East Azerbaijan province and its role in export of dried-fruits	37
2-4-	Expo	rt and its effects on and the impressions taken from E-Commerce	43
2-	-4-1-	Steps in entering global markets	43
2-	-4-2-	Globalization and role of EC in its expansion	46
2-	-4-3-	Effect of E-commerce on exports	51
2-	-4-4-	Motivations for using of EC in exporter companies	53
2-	-4-5-	Informational requirement of E-commerce based exportation	55
2-5-	Mode	els for infrastructures and barriers of EC adoption	56

2-	-5-1-	Ihlustrum, Magnusson Scupola's and Tuunainen research	57
2-	-5-2-	Javalgi, and Ramsey's research	59
2-	-5-3-	Darch, and Lucas's research	62
2-	-5-4-	Kuzic, Fisher, and scollery's research	65
2-	-5-5-	Eid, Trueman, and Ahmed's research	65
2-	-5-6-	Macgregor, and Vrazalic's research	65
2-	-5-7-	Research of World Information Technology and Services Alli	iance
		(WITSA)	71
2-	-5-8-	Fillis, Johansson and Wagner's research	74
2-	-5-9-	Ihlustrum and Nilsson's research	75
2-	-5-10-	Stockdale and Standing's research	79
2-	-5-11-	Flynn, and Purchase's research	81
2-	-5-12-	Chaffy's research	82
2-	-5-13-	Mukti's research	82
2-	-5-14-	Nath, Akmanligil, Hjelm, Sakaguchi and Schultz's research	82
2-	-5-15-	Research of Information Technology Group	83
2-	-5-16-	Sathy and Beal's research	83
2-	-5-17-	Researches done in Iran	83
2-	-5-18-	E-commerce adoption barriers, specific for exporter companie	es 84
	2-	5-18-1- Non-implementation of EC by insurance industry	86
	2-	5-18-2- Customs weakness in making use of E-customs	91
	2-	5-18-3- Shortcomings of banking system regarding EC	94
	2-	5-18-4- Methods of paying values in EC	98
2-6-	Intro	ducing three category (3C) model	100
Cha	pter II	I: Methodology	103
3-1-	Intro	duction	105
3-2-	Rese	earch method	105
3-3-	Varia	bles and theoretical framework of research	106

3-4-	Phas	es in doing the research	111
3-5-	Statistical Population		
3-6-	Sampling method and volume		112
3-7-	Instru	uments of gathering data	113
3-8-	Valid	ity and reliability of instruments	114
3-9-	Meth	ods of data analyzing	116
Chap	oter IV	/: Results	119
4-1-	Intro	duction	121
4-2-	Analy	ysis of the geographical descriptive statistics of responders	121
4-	2-1-	Age groups of companies managers	121
4-	2-2-	Educational level of respondents	122
4-	2-3-	Respondents' work experience in their companies	123
4-	2-4-	Respondents' familiarity with EC	123
4-	2-5-	Rate of EC usage in the companies	124
4-3-	Desc	cribing the examinees	125
4-4-	Resu	ults of analyzing inferential statistics	127
4-	4-1-	Testing hypotheses	127
4-	4-2-	Ranking the barriers	130
4-5-	Fina	model of the research	135
Cha	pter V	: Discussion, conclusion and suggestions	137
5-1-	Intro	duction	139
5-2-	Cond	clusion	139
5	-2-1-	Hypothesis 1	140
5	-2-2-	Hypothesis 2	140
5	-2-3-	Hypothesis 3	141
5-3-	Rese	earch suggestions	142
5	-3-1-	Practical suggestions	142

5-3-2- 8	Scholarship suggestions	146
References		149
Appendix (Q	uestionnaire)	159

Chapter I
Preface

Chapteri

1-1- Introduction

Change and innovation are inseparable parts of human life and these innovations and modern phenomena have influenced all aspects of human life. Business and economy world is also part of human life and have been influenced by the waves of innovation and change. It can be said that the domains of economy and business have been influenced most from change and innovations.

Innovation and change in the domain of business is important because organizations as economic corporations have workforce, raw materials, and doing productive activities move the cycle of industry and service. Those corporations and companies present in various sectors of a country's economy and even in a global level, make use of modern technologies in order to gain resources, and maintaining and increasing their share in the market. Nowadays the traditional methods of doing business are rarely used and some processes like competition regulations, methods of determining strategies, and reformed ways of gaining information have been created and even the type of relations with customers has been changed in the world of electronic commerce (E-commerce) and it is expected that in the future, E-commerce will be one of the most important sub-sections in the organizations.

A look at statistics of the use of the internet and E-commerce and regard to decrease in spending (up to 25 percent) and the increasing trend in the use of the internet, makes it essential for the organizations to make rapid changes in order not to loose opportunities (Pirhadi, 2004).

The characteristics of E-commerce like globalization of commerce, removing time and place barriers, decrease in the costs paid to resources, increase in sales, removing time barriers in transactions, easy access to information, considerable decrease in transactional spending, decrease in the

time allocated to transactions, and many other advantages have caused a rapid expansion in E-commerce (Sanayei, 2007).

In the Islamic Republic of Iran, too, Commerce Ministry, as the responsible body for international commerce and EDI (Electronic Data Interchange) started activities in 1994 and the policies so E-commerce were passed in 2002 (Pirhadi, 2004).

1-2- Statement of problem

Nowadays, the expansion of E-commerce, as a challenge facing the administrators, requires new methods and procedures. In this regard, the importance of the use of internet and E-commerce in order to gain potential customers in international markets is remarkable.

There are few companies that lack a website nowadays. Small- and medium-size enterprises (SMEs) use in a growing trend, the advantages of E-commerce (Bennett, 1997 & Fink, 1998).

The two major trends that describe the perspective of modern business are: the development of the technologies in the field of E-commerce, and the rapid, global expansion of companies. In the first trend, the technologies of E-commerce will lead to new opportunities for exporters to identify new markets and improve their efficiency for receiving orders and responding to them (Prasad, Ramamurthy, Naidu, 2003). In the second trend, the internationalization of international markets will lead to the expansion of global commerce and exporter companies all over the world (Morgan, Kaleka, and Katsikeas, 2004).

Iran is a country that has lots of potentials for entering and presence in international markets. Considering the obligations of E-communication and information, it seems that one of the essential infrastructures for the expansion of non-oil exports is the provision of E-commerce for domestic and

international communication, in a way that government can make effective communication with the outer world and the facilitation of internal communication and the acceleration of the growth trend; by establishing the electronic system make better relations with countries, internal, and international organizations and citizens, and by the establishment of electronic business, cause the increase in country's GDP. Also, it can provide the possibility for the international exchange of goods and services by the establishment of grounds for electronic exports and commerce. In this respect, some industrial and commercial enterprises in Iran have also tried to use E-commerce commerce tools in order to grow rapidly and be successful in the domain of international and global competition. By having a brief look it is apparent that a few industries have progressed relatively, but some others have put trifle steps in this path and have been faced with lots of challenges and obstacles.

This is true especially for the case of dried fruit industry which has the highest value among non-oil products, and considering the strategic geographic and environmental condition of Iran, the growth in its exports can provide a very large sum of money. Considering an initial survey, only 27 out of the whole of 97 enterprises which are active in the export of dried fruit have an exclusive Internet site, from which only one of them was ready to price (in the state of loading) in their site.

So, considering the topics mentioned, and considering the claims of the officials of the Commerce Organization of Tabriz, East Azerbaijan has the second place after Tehran province in the export of dried fruit, the present paper by pointing to the advantages of using Ecommerce while surveying why E-commerce faces obstacles in productive, exporting sections, tries to present working procedures for the expansion of Ecommerce in this industry.

1-3- Importance and necessity of research

There is a public agreement that Internet is an inexpensive choice, and those small- and medium size enterprises (SMEs) which had been deprived of global trade for resource limitations, now are able to present their own selves and their products in a professional and remarkable way like bigger companies (Kandasaami, 1998; Poon & Swatman). Even some state that the Internet is the only device in which enterprises can involve trade beyond the borders.

Based on the reports by Forserer research, E-commerce in 2008 is predicted around 50 trillion dollars, in which the timely global exports amounts to 5/5 trillion dollars that shows 54 percent growth from 2002 (Emadzadeh et al, 2006). Also, studies done on more than 2000 Australian companies show that 70% of small-size enterprises and 95% of medium-size enterprises connect to the Internet using their own computers and 76% of them use the Internet to search the information of products and services and also 82% of the small-size economic institutes connect to the Internet to use E-mail (Abdolbaghi, Akhavansarraf, 2007).

With the expansion of this method of exchange in developed countries, the older paper-based methods have been outdated and in action, the exchange between countries using those obsolete methods will be impossible and this in turn will mean being solitary in world arena (Iranafact, 2001).

Dried fruit producer-exporter enterprises in Iran, also, in the way of designing and operating appropriate strategies of using EC face problems that disallow the establishment of E-commerce in these sectors and most of those who have websites use it as publicizing. These obstacles have both internal and external dimensions. Of course, in the case of E-commerce there have been some case studies in Iran, but according to the initial investigations of the researcher, there has been no research about the