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Research paper

Determining the Impact Factors of E-Commerce Adoption by Smes in Iraq: an Overview

¹Ibrahim T Nather, ²M.A. Burhanuddin

Faculty of Information and Communication Technology Universiti Teknikal Malaysia Melaka

Abstract

The appearance for electronic commerce (e-commerce) has produced great benefits for enterprises; where e-commerce has become indispensable for Small and Medium Enterprises (SMEs) around the world, e-commerce is considered as an appropriate technique for selling, marketing and integrating online services that can play a significant role in determining, maintaining and getting customers. However, e-commerce adoption stays a vital yet evasive and complex phenomenon, with a quite little known regarding its determinants. This study aims to provide an overview of e-commerce adoption through SMEs. That identifies the e-commerce benefits realized through these SMEs; an intensive review of the related literature was conducted to cover the variables of this study. The study was performed utilizing a non-experimental study exploratory research design. This exploratory study included an essential investigation about secondary data. The study development and modeling of secondary data in order to highlight the final results of the research. Through reviewing the literature of the existing frameworks and models in e-commerce adoption. Therefore, it is recommended for future researchers to conduct a field survey by collecting primary data and conducting statistical tests on the critical factors that help to adopt e-commerce in Iraqi SME's.

Keywords: E Commerce, SME.

1. Introduction

The remarkable development of ICT has led to the development of severalfields likecommerce, economy, banking, customs, etc.(Rahayu & Day, 2017). Sincetime passes, the classic commerce will no extended be able to react the modern requirements. Therefore, new commerce techniques will be required. Hence, benefiting from novel and modern techniques likee-commerce in performing commercial functions can perform important roles in the achievement of commercial firms (Sebora, Lee, & Sukasame, 2008)

Electronic commerce is the selling and buying of services or products throughelectronic systems including the Internet and other computer networks. Usually modern electronic commerce uses the World Wide Web, e-mail, mobile devices and telephones (Akanbi & Akintunde, 2018). E-commerce has provided many advantages, this is why e-commerce has become very popular among companies and it is noted that, this interest by e-commerce companies from the growing growth of e-commerce use by companies from year to year. In 2009, 624 million internet clientshad made online buyswith incomenearly \$8 trillion in total; and according todata reported throughThe Internet World Statistics (2015), the number had beenforecastto have increased throughyear end 2013 over\$16 trillion transactions, like significant growth is as wellseen in Asia.

It has to be pointed out that e-commerce has resulted in evolutions and dramatic modifications in commercial issues. That is, ecommerce has resulted inmodifications and variations inselling and buying products and items, it has enhanced the relation and connectionbetween the clientsand suppliers. In addition, it has produced fundamental modifications business view in terms of better production and much better relationship between clientsand producers (Yang, Pang, Liu, Yen, & Michael Tarn, 2015). specifically; SMEs in developing countries face important and special challenges in adopting all these technologies, which ought to have the enhancement of their fortunes (Sa'ad).

SMEs are an integral part of developed and developing market economies, and they contribute to the competitive business environments. For instance, SMEs in Slovakia represent 99.9% of all businesses and also account for 72% of all jobs in the business environment (Slovak Business Agency 2015). The report also indicates that SMEs in Slovakia are an important part of the Slovak economy, and they have the greatest potential for economic growth. It is apparent that for SMEs to contribute to the expansion of the Slovakian economy and to create jobs, they must embrace information technologies including various aspects of ecommerce. Given the importance of SMEs in the Slovakian economy, there appears to be a gap between what is needed by Slovakian SMEs to be competitive in the global market and to create jobs. Therefore, it is imperative to not only understand the determinants of e-commerce adoption but also examine those factors that distinguish between adopters and non-adopters of ecommerce among Slovakian SMEs (Walker, Saffu, & Mazurek,

SMEs considered likea positive powerin Economic development and growth. Where SMEs have an active role in making surefastdevelopment, increased usageof local sources, development of localtechnology and increasing the living typical,



the aforementioned, Government of Nigeria has made several attempts to developing SMEs in Nigeria, the several attempts are: National Economic Empowerment Development Strategy (NEEDS), National Economic Reconstruction Funds (NERFUND), Small and Medium Enterprises Development Agency of Nigeria (SMEDAN), National Poverty Eradication Programme (NAPEP) and Small and Medium Industry Equities Investment Scheme (SMIEIS)(Taiwo, Ayodeji, & Yusuf, 2013).

Because of the increase in unemployment and the big companies, small and medium enterprises will be encouraged to solve the economic issues. For the ability of SMEs to provide and create jobs, address poverty and increase production. SMEs represent the backbone of the national economy in most countries all over the world. The SMEs through e-commerce and the use of the Internet will be able to enhance internal and external communication (Ahmed, 2018).

can findseveralfactors that stand in the way of preventing e-commerce adoption by SMEs, thelack of support, internal resistance; unready customers; lack of IT resources, security issues; unready business partners, internal constraints, lack of support a and lack of human resourceslikemain impediments factors of e-commerce adoption by SMEs(Jahanshahi, Zhang, & Brem, 2013)as welldiscoveredthat understanding of e-commerce, privacy issues, security, high maintenance cost and lack of knowledge were the majorbarriers confrontedby SMEs in adopting e-commerce. Hence, the improvementof SMEs in a country willhave a positive effecton the economic developmentof the country, and the opposite is true. However, majority of these studies were examined from the perspectives of the consumers. Theaimof this study is to examine the influencee-commerce adoption on organizational level.

2. E-commerce

Previously, the term e-commerce was limited to the exchange of electronic data only, and the appearance of the Web predicted that this web-based trade will play an active role in the global economy(Nanehkaran, 2013). E-commerce literature discovered that there are three proceduresto achieve e-commerce. Some believe that e-commerce in Internet applications like e-mail and others see the achievement of e-commerce in terms of business activities such as communication between customers and suppliers and some see it as a combination of Internet applications and commercial activities (Ahmad & Jameel, 2018)or that, ecommerce can be defined by (Shahjee)as it has a great impact on the economy as it affects the costs of business and productivity and e-commerce conducts large-scale commercial activities through the Internet for products and services. (Hajli, Sims, & Shanmugam, 2014) shows that no common definition of ecommerce existed in the literature. E-commerce include scarrying out commercial transactions via computer networks likethe Internet described e-commerce like sales transactions which take place between organizations, businesses, and individuals via computer-mediated networks. Regarding buy and sell transactions, e-commerce is defined as buying, selling and trading of goods, services and information online using the electronic and communication technologies. Regarding use of technology, ecommerce involves communication, delivery and buy-sell of services, information and products over the computer network including the internet.

E-commerce is able to sell and purchase products and information via the Internet. E-commerce is changingthe marketplace by transformingorganizationsbusiness models, throughframingrelations betweenmarket actors, and by contributing to modifications in market structure. (Vadwala, 2017)also defined e-commerce as a techniqueof modern business

thataddresses the requireof business organizations, sellersand customers to decreasecost and increasethe quality of itemsand services while raisingthe paceof delivery. Therefore, electronic commerce is provided a wide competitive advantage by finding new customers, markets and suppliers. It is faster to move to the international market. E-commerce is cost-effective, advertising and marketing at less cost than traditional methods, in addition e-commerce does not need a prominent physical location (Ahmed, 2018).

3. Small and Medium-sized Enterprises (SMEs)

Although there is no single and uniformly acceptable definition, SMEs are known globally to be effective in creating employment for young people and further enhancing economic development (Berisha & Pula, 2015). Small and medium enterprises are named by Qualities which Refers to size, thereforeeconomists tend to partitionthem into classes based onsome quantitative measurable symptoms. One of the mostpopularcriterion to distinguish among small andlargeenterprisesis the number of employees, Small enterpriseoperates:, services manufacturing, mining,trade, wholesale, retail tradetransportation, and construction (Hatten, 2011). The World Bank utilizesthree quantitative standardsfor defining SMEs: total assets in U.S. dollars, number of employees and annual sales in U.S. dollars (Berisha & Pula, 2015).

Based onthe studies of (Mohammed, Almsafir, & Alnaser, 2013), SMEs play a criticalrole in the economic progressin developed and developing countries and account for 80% of the worldwideeconomic progress. In Vietnam, (Hoang, 2016)saysthat most of the firmsare medium andsmall -size enterprises and althoughtheir achievementsare important to the progressof Vietnam's economy. WhileSMEs are of superbsocio-economic importance. Even so, their long-term progressand competitionhas been affected by the chronic and often acute limitations on their obtainto formal-sector finance, betweenother institutional and systemicissues in developing countries. One of the maincauses of SME inability is nonavailability of external finances (Abor & Quartey, 2010).

In Iraq can be define the small enterprises which has the number of employees less than 10 employees, and medium enterprises which has less than 30 employees. According to the Central Organization for Statistic and Information Technology (COSIT) in Iraq(Ahmed, 2018).

Table 1: (classification of enterprises in Iraq)

Small enterprise	Medium enterprises
1-9 employees	10-29 employees

4. Benefits of E-Commerce in SMEs

E-commerce has played an active role in the advancement of SMEs where these companies have identified many benefits from the adoption of e-commerce and there are many studies examined and summarized the benefits brought by the electronic commerce of these companies(increasing sales,improving the company's image, cost advantage, improving external communications,enhance competitiveness, improving processing speed,access to new markets and increasing employee productivity).

A study in turkey showsthat the benefits whichcan be gottenviathe adoption of e-commerce are: obtainto new markets, improvecompetitiveness and cost advantage (Aydemir, 2013). There is also a study on Indonesian SMEs that have proven that

electronic commerce is expanding market access, increasing sales, improving external communications, improving the company's image, improving processing speed and increasing employee productivity (Rahayu & Day, 2017).

One of the most important benefits that small and medium enterprises can get from the use of electronic commerce is: higherpotential for partnerships, differentiation of productand service, flexibility in administration and communication, accessibility, capacityto enter supply chain for larger companies obtainto a wider range of markets, information, enhanced customer services, upgrading of information and reduce transaction costs. Another study depends based on tested of three independent variable (customer allegiance, attracting new customers customer retention, and customer retention) the findings show the benefit of adoption e-commerce is customer allegiance (Al-Abdallah, 2013)

Small and medium enterprises which adopted e-commerce in their business operations grew more rapidly and greatertheir customer base. On the other hand, small and medium-sized enterprises which un adopted e-commercein their businesses may encountera decline in productivity profitability andprofitability. Where SMEs in one geographical regioncan look abovetheir local markets and contendwith larger organizationsfor customers on a worldwidescale to expandprofitability, develop brand awareness and motivateprogress. Thus, to endureand grow, adopting e-commerce is one of the impressivemeans throughwhich businesses mayremain competitive in this age of quicktechnological growth(Ekanem & Abiade, 2018).



Figure 1: Benefits of E-Commerce in SMEs

5. Barriers of Adoption E-Commerce in SMEs

E-commerce has many benefits to SMEs, but at the same time has barriers to their adoption.(Kwadwo, Martinson, Evans, & Esther, 2016) has conducted several studies in Ghana to identify some of these barriers, then they found the cost of e-commerce infrastructure and its execution is expensive such as setting-up, training employees, buying ICT toolsfor execution, consultancy fees, designand servicingof website and other infrastructures, Security issues and lack of regulatory frameworks, the Organizational culture, Lack of electricity, lack high speed of internet, Lack of skilled ICT personnel, Economic and political instability and Lack ofpayment systems and credit cards amongclients and SMEs, All these are considered barriers and challenges preventing SMEs from adoption e-commerce. (Agwu & Murray, 2015)Showed through a study to Verification the barriers of using e-commerce in SMEs, the worryofscamand likea major challenge to threatof loss

Additionalnoted whiche-commerce couldoffer clientssavings in time, even so, utilizingthe internet for commercial reasonsmay showto be too time ingestingfor severalclients. There are severalreasons for this:registration procedures needed to obtain services, challenges to Determination web sites productsservicescost of a computer and internet, doing price comparisons, lack of pleasureand hardto determineitems are barriers toadoption e-commerce by SMEs.

(MacGregor & Kartiwi, 2010)presented some more succinct barriers that (tangible) itemshave the wantedcharacteristics(e.g. colour, material,design,fit), which leads to quality evaluation barrier to e-commerce. Also (Dube & Tofara, 2010)revealedthat the requireto feel and touch was the dominating obstacle for many home-shopping services. Likewise,(Shahjee, 2015)added, there are many barriers which limit the development and growth of e-commerce. Many studies determine the varioustypes of barriers, and severalof them concentrateon security as becomingone of the biggestinhibitors to and concernsfor e-commerce. all kinds of enterprises have comparable barriers but with various emphasis such as Commercial Infrastructure, Technology Infrastructure, Internet Infrastructure, Security, Interoperability of systems and Lack of Qualified Personnel (Shahjee, 2015).

6. Related Work

Presently, given thattechnological instrumentsand advancedcommunication toolsare developed and produced quicklyand exchangethe classicand outdatedprocesses and operations, the nicheof commerce has likewise commenced likea trend by giving uptraditional and old styleoperations and usingnovel technology-based e-commerce (Ueasangkomsate, 2015) the principle of information and communication technology (ICT) has appeared as a new and powerful event in the world. It has startedto impactpeople' lives directly or not directlythroughits great influenceonsocial, political, cultural andeconomic structures. E-commerce has inducedobvious modifications and evolutions in the classic foundations of the management of the societies throughpresentinga new system of administration(Apăvăloaie, 2014; Jai, Burns, & King, 2013). It must benoted that e-commerce is just nota brand innovative principle but it has gotgrowing and unforeseendevelopments in the latestyears. |In fact, internet may beregarded as the significantreasonfor the development of ecommerce. Inasmuch as successful managementand executionof e-commerce call for a carefulplan.

(Okadapau & Emaase, 2016)investigated the influence of five socio-cultural factors such as decision making process, trading partner relationships with the company, maintenance of a good company image, Personal innovation and creativity and socializing on e-Commerce. However, it is observed that the most important socio-cultural factors rated by respondents in applying ecommerce applications were: relationship of trading partners and suppliers with the company, develop business contacts by socializing, and finally maintain the image of the company.

According to (Choshin & Ghaffari, 2017)e-commerce maybe identifiedas the procedure of selling, transferring, buying, changingproducts,, information and services by usingcomputer networks, mostly the internet and e-commerce guidedto remarkablemodifications and evolutions in commercial issues. Which guidedto is, e-commerce has diversity products, inselling, buying goods and has enhancedthe relationshipsand connectionamongthe providers and clients, whereas e-commerce have great potential in the economic development of any country. The relationship amongtechnologyand commerce has Longley been continued and existed. Multiple advances and developments of information and communication technology (ICT) at the latestdecades,

guidedto severaldevelopments in severalfields likeworldwidebusiness. As a result, the processes involved on areas like trade, customs, banking,economy, etc. have developed and modified. There are four core variables create the success rate of e-business customers' satisfaction, costs, infrastructure, and awareness. In addition, the factor such as loyalty for SMEs is as important as trust in security and privacy factors.

Ramanathan et al., looked intothe influenceof e-commerce in operational performanceandmarketing in medium and small Taiwanese companies (Ramanathan, Ramanathan, & Hsiao, 2012). Utilizinga questionnaire and statistical methods, they suggested conceptual model so that they can check outand analyze the influenceof ecommerce on small and medium Taiwanese firms. The outcomesreceived that study pointed outthat three primaryfactors were accountable for the usefulnessof e-commerce in Taiwanese firms:

Operational factor: basic web design, innercommunications, quality enhancement, comprehensive information, security of online payment.Marketing factor:brand recognition online advertisementsand customers' awareness. Performance factor: enhancement of procedure and competitive benefit, customers' pleasure

Rahayu, R., & Day, J. (2017) e-commerce couldaidSMEs in the following significantaspects: enhancedcommunication with suppliersand clients, raisedrevenues, risingmarket reach, better employees productivity, rapidprocess, better firmimage. Additional, empirical resultspresentthat Indonesia's SMEs, a developing country, increase the E-commerce adoption level increase the profit. Noted, it is necessaryto know the barriers and inspiration before e-commerceadopting; there is Scarcity of check into what occurto SMEs afteradoption e-commerce.

Finding from (Hajli, et al., 2014)The main factors effects of ecommerce adoption are (Awareness and Organizational readiness), There is a good relationamonge-commerce adoption and organizational readiness and the relationamongawareness of e-commerce and its adoption is both positive andstrong. The adoption of E-Commerce has manybenefits, E-Commerce decreases costs related with actions of the enterprise, it also assists in simplifying processes doing them smoother. E-Commerce likewise increases the enterprise's market get to and receptive new business Prospects, it likewise enhances operational performance in the short and long terms. Moreover, E-Commerce assist firms establish better relation with suppliers and business partners, as it increases the process of buying and selling items by both the enterprise and the client, that essentially impact the overall efficiency. However, about the adoption of the E-Commerce, are mainly affected by two theories, the Theory of Planned Behavior and Technology Acceptance Model.

From the point of view (Mohammed, et al., 2013)the factors that influencethe adoption is essentialto guaranteethe achievementof adoption and to allowthe decision creators and business proprietorsfocus a lot moreon these factors to ensure thatthey can ensurethe feasibility of adoption and executionof e-commerce by SMEs and they can obtain he predicted benefits and conquerthe difficulties. The primaryfactors influences of adoption ecommerce are (perceived usefulness, Security, willingness of manager, perceived ease of use, company readiness, customers' needs and elative advantages), whereverthe results showthat the relationamong adoption e-commerce by SMEsandmanager willingness is significant and Relative advantage has the second highest frequency, Customer needs had been discovered to become marginally significant. E-commerce has created an innovative medium for SMEs where they can find great new opportunities and potential benefits like reducing business and

operation cost, streamlining of business processes, global outreach, 24/7 business, improving operational efficiencies, better access to new customers, suppliers and trading partners, creating new ways of selling existing company products and services, rapid time-to-market, greater competitive advantage, expanding market penetration, boosting revenue and more benefits. Moreover, SMEs play anessentialrole in the economic progressin developing and developed countries and account for 80% of worldwideeconomic progress. Therefore, **SMEs** recommended to conduct an evaluation of external and innerfactors in an attemptto understandthe readiness of their sectorsin relationto the capacity and electronic market to endure in the ecommerce sector. Additionally, the evaluation of factors presents valuable information if an enterprise has to adopt ecommerce. Precisely, the evaluation of environmental factors showsthe readiness of the enterprise's sectorto electronic market that is one of the most significant factors for SMEs to think aboutbefore coming intoe-commerce sector.

The evaluation of innerfactors (knowledge factors, organizational factors, and technology factors) showsthe enterprise's abilities to endurein the electronic market. Itrevealed the following factors: the technological factor, the exteriorfactor, and the organizational factor. In addition, the benefitsof these pointed outfactors:movinginto the new market locationand the development of the competitive capacity and cost benefits. In terms of risks, it revealedthat there was no foreword of information technology to stay incharge of the different processes and security issues. Likewise, it was discoveredthat probably the mostapplied stageof an e-commerce system has been at the first stagethat it has beenthe exceptionalchanceto connect to the Internet. Even so, the non-public use of website for showing items was at the second stage which it was primarily utilized for showing the items. On the other hand, the barriers to adoption e-commerce in SMEs as the following: the size of the enterprise, the lack of technical staff, the opinion of the management or owner, a wish to avoid risk and complex applications, financial constraints, a low level of market share, the lack of IT infrastructure, there being no perceived benefits, and a lack of government support.

(Kenneth, Rebecca, & Eunice, 2012)showed the main factors effects of e-commerce adoption are (leadership style, resources, infrastructure, competition and positioning). The most recent years have seen a grow in the variety of electronic commerce all overthe distributeinformation world as anoutcomeof the communication technologies (ICT)utilization. Where the efficient national Internet and information and communication technology infrastructure (ICT) performsa significantrole in the efficiencyof B2B e-marketplaces. In spite of the excellentchancesenvisaged thee-commerceadoption by SMEs, utilizationdesignscontinue to presentslowerprogressespeciallyin commerce-oriented activities. Where SMEs face impediments to the adoption of e-commerce technologies, such as business owners' and employees' preference of doing business 'the traditional way' and a lack of implementation-related and usagerelated know-how. In addition, is because oflimited resources by which, financial, human and technological sourcesimpactthe adoption of ecommerce to a great extent.

With the amount of literatures reviewed above, it shows that a number of studies are already carried out on the e-commerce adoption and its effect on organizations at a private sector and SMEs. These studies are carried out in different environments, countries, and industries. These studies showed that the e-commerce adoption is constantly evolving, and it became necessary for the different processes and activities within SMEs, and this requires the organizations to apply it and use. Despite the importance of e-commerce adoption and its role in activating the role of responsibility accounting in Iraq to enhance the company's

performance, there was a lack of researches and studies on the factors which effect of e-commerce adoption in term of the technology readiness in Iraqi SMEs. As a result, there is a knowledge gap. This study aims to fill that gap.

7. Conclusions

In this study, the existing ofadoptione-commerce frameworks for SMEs in developing countries as well as Iraq has been discussed briefly. A review of these studies showed that the SMEs in Iraq needs continued attention to get government support, Iraqi SMEs services have limited developed over the latest years in the different levels of field and w-commerce services: tertiary, secondary and even the primary level, as well as in measuring the practicality of the existing approach.

The findings indicate that interventions and programs designed to increase the e-commerce adoption need to include a focus on the practice level because that is decision making regarding adoption occurs, in addition to help IT managers within SMEs to change their workflow to obtain the most services, along with addressing privacy concerns and explicitly acknowledging. Additionally, the study will suggest a variety of SMEs settings in order to ensure higher generalizability associated with the outcomes. All these results can be mainly relevant and timely with regard to decision maker who presently face the obstacle of e-commerce adoption in the Iraqi SMEs environment.

The limitations of this study includes that there was single-source bias, as the collection of information was from secondary sources only. Also the study has more of a judgmental conclusion as there is no post data assessment. SMEs should figure out how to rationalize their employee's needs and priorities, applications, and their own premise information, and after that merge their framework accordingly. Therefore, it is recommended for future researchers to conduct a field survey by collecting primary data and conducting statistical tests on the study variables test the variables implicated in the findings of this study.

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