THE APPLICATION OF THE TOE FRAMEWORK TO THE ADOPTION OF CRM BY SMES IN KWAZULU NATAL

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ABSTRACT

Small And Medium Enterprises (SMEs) play an important role in the development of economies despite a plethora of problems that stifle their growth. The adoption of Customer Relationship Management (CRM) is one of the solutions that can help SMEs to endure and overcome economic hardships. The benefits that can be derived from CRM are too compelling to pass up the opportunity and indeed, the future prosperity of SMEs may lie in CRM adoption. The study unpacked the application of the Technological, Organisational, Environmental (TOE) framework as a guide for the adoption of CRM strategies by SMEs in Kwa-Zulu Natal in 2021. Various hypotheses were tested to ascertain the importance of the TOE framework in the adoption of CRM strategies. A quantitative research method was used to evaluate these factors. Even though environmental, organisational factors are paramount, variables like CRM compatibility and information security which are part of the technological construct and education, stood out as the major driver of adoption. This study therefore concludes that the TOE framework needs to be extended by education and contextualised to the geo-political and social settings of the SMEs under investigation.

Keywords: Economic Growth, Customer Relation Management (CRM), Small-Medium Enterprises (SMEs), Technology-Organisation-Environment (TOE), Kwa-Zulu Natal (KZN), CRM Adoption.

INTRODUCTION

The importance of SMEs in any economy cannot be overstated and this is especially true in emerging and developing economies of the Africa continent (Love & Roper, 2013). This is further supported by Fatoki (2014) who averred that SMEs are critical in addressing unemployment, income disparity, and long-term economic growth. SMEs are highly valued by the government and their failure is viewed as a failure of the entire economy (SEDA, 2020). Problems faced by Small and medium-sized firms have been researched extensively by researchers throughout the world, including those in South Africa (SEDA, 2016). One of the reasons why small businesses fail is because they are unable to attract and retain customers. Attempts have been made in this sector to use Customer Relationship Management (CRM) to avert failure. The question therefore is whether CRM is a panacea or a Pandora's box for SME survival.

CRM is not often considered a strategy for SMEs but there is an advantage for owners of small businesses over larger corporations because of the personal relationships they have with

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their customers (Starzyczná, et al., 2017). SMEs in KZN could benefit from the adoption of customer relationship management Galvão et al. (2018) as well as strengthening the government's policy initiative to grow the SME sector (Maziriri & Chivandi, 2020). Garcia et al. (2012) reiterated that research on CRM in SMEs is mainly based on information gathered from large organisations, hence it focuses on the attributes of these corporations. This research will therefore move away from the common trajectory of copying CRM practises from large organisations onto small enterprises. CRM adoption in SMEs should not be considered as a scaled-down version of larger enterprises (Alshawi et al., 2011).

This research therefore endeavours to identify and empirically test the major factors that directly or indirectly interact with the adoption and implementation of CRM strategies by SMEs. By so doing, the study seeks to provide a thorough and broader grasp of CRM adoption in SMEs, which will allow other researchers to relate their experiences to the output of this study and to give guidelines to CRM practitioners and policy-makers. The current research mainly investigated SMEs registered and funded by the Department of Small Business Development, supported by Durban University of Technology (DUT) at the Centre for Social Entrepreneurship Rapid Incubator (CSERI).

REVIEW OF LITERATURE

There is no consensus on the definition of a small to medium-sized enterprise (ar Jassim & Khawar, 2018). The majority of definitions are derived from World Bank guidelines that categorize SMEs by their total asset value, annual revenue in US dollars, and employee head count (Garatsa & Dlamini, 2021). However, the critical role of SMEs in revitalizing economies in both developing and developed countries is widely recognized (Soni et al., 2015). Indeed, SMEs have been identified as engines for achieving third-world countries' developmental goals due to their capacity to adapt quickly to changing customer needs, ability to mobilize idle funds, and hire from local communities (Adeyele & Omorokunwa, 2016). It has been observed that the socio-economic stability of the country may be threatened by high levels inequality, joblessness and poverty (Bailey, 2019). The government of South Africa has huge political and policy commitments towards the support of SMEs as an engine to drive job creation, equitable income distribution and poverty alleviation. (Masutha & Rogerson, 2014).

Despite their importance, a huge number of SMEs are reported to close before the fifth year of establishment (Adeyele & Omorokunwa, 2016). Support of the above comes from Gonsalves & Rogerson (2019), who retorted that newly established businesses have failed dismally during the first stages of existence. Due to the important role they play in economic growth (Lekhanya, 2016), failure by SMEs is viewed as failure of the whole economy. Teng et al. (2011), discovered the variables that can influence the survival or closure of small enterprises. These include inadequate venture capital; the calibre of staff employed in a firm, level of education of and age the owner, partnerships with other businesses, marketing expertise, availability of external consultants, strategic planning and managerial experience.

Findings by Fatoki (2014) pointed out factors like crime and corruption, a weak education that does not encourage entrepreneurship, a weak legal system that does not enhance property rights and enforcement of contracts. Corruption and '*tenderprenuership*' has reached alarming levels in South Africa in comparison to other nations. According to the Global

Entrepreneurial Monitor (GEM) report, corruption and crime are the major obstacles to the development of SME South Africa (Sitharam & Hoque, 2016). Failure to attract and retain customers is one of the problems attributed to the failure of SMEs (Garatsa & Dlamini, 2021). Failure to fully comprehend these factors may lead to the demise of small firms.

CRM can thus be employed as a strategic tool for SMEs. It is acknowledged that CRM practices have to be part and parcel of the daily business operations of such enterprises to gain competitive edge over peers. CRM adoption by SMEs would enable the provision of valuable information, enhanced knowledge, and relationships with its suppliers and customers (Salah et al., 2019). CRM's ultimate goal is to establish a long-term relationship with a select group of clients to achieve a competitive advantage. This approach to relationship management therefore acknowledges the critical aspect of customer retention over a lengthy period (Alves et al., 2019). Value creation for the targeted clientele improves the association with customers by recognising their unique needs and to retain them by offering products of high value and offering attractive services to prospective customers. This therefore reduces customer acquisition costs while increasing the bottom line (Bashir, 2017).

Salah et al. (2021) averred that SMEs can successfully adopt CRMs. SMEs' proximity to customers can give them a unique competitive advantage (Hasani et al., 2017). SMEs are 'organic' from an administrative and strategic standpoint, and are frequently viewed as an extension of the entrepreneur's own personality (Stankovska et al., 2016). In particular, SMEs can form closely-nit personal relationships with clients than bigger firms (Galvão et al., 2018). Although term CRM is not familiar in SMEs, it occurs almost unconsciously. This approach is close to intuitiveness in doing business (Galvão et al., 2018). However, we have noted that CRM adoption in the SME sector needs a new viewpoint that is tailored to the issues faced by SMEs in order to fully comprehend these challenges so as to realize the full potential of the sector. There is a need to refocus attention away from the available collateral in the business and move towards the business's viability and capabilities of the owner (Garatsa & Dlamini, 2021). Therefore, it is crucial for SMEs to integrate CRM strategies into their everyday business operations go be ahead of competition.

The deduction from the above argument is that research studies on CRM in context of SME is under-developed (Garcia et al., 2012). The success or failure of newly established companies may therefore be influenced by the design of CRM technologies to facilitate customer interaction during the design and delivery of goods and services (Hasani et al., 2017). However, SMEs are unique in their own way. This has a major bearing on the adoption and implementation of a CRM initiatives. As such, the current study aims to build a new framework for increasing CRM adoption among SMEs in KZN. This would provide more in-depth understanding on CRM adoption by SMEs in developing nations, particularly in South Africa.

Theoretical Underpinning

A number of theories have been propounded to explain the adoption of technologies by businesses to enhance competitiveness. These theories include the Diffusion of Innovation (DOI), Technology, Organisation, and Environmental (TOE) framework, Resource-based view (RBV), Technology Acceptance Model (TAM) and The Unified Theory of Acceptance and Use

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of Technology (UTAUT). Developed by Rogers the DOI describes innovation as concepts, practices, or products viewed as novel by individuals or adopting units. It was argued that numerous qualities of innovative products influence their adoption. Their relative advantage, compatibility, intricacy, divisibility, and observability are among these properties (Hassan, et al., 2019). Introduced by Tornatzky and Fleischer in 1990, the TOE focused on the intrinsic and external factors that influence the adoption of technologies by organisations (Riyadh et al., 2019).

The RBV framework describes a firm's valuable and scarce resources and competencies that might provide it with a competitive edge on the market. These enable a firm to design and execute strategies that result in lower net expenses and higher net revenues (Dubey et al., 2018). The TAM was established by Davis with the purpose of predicting and determining the elements influencing user acceptance of technology. TAM model includes two constructs: perceived usefulness (PU) and perceived ease of use (PEOU) which ultimately influences the choice to adopt a given technology (Venkatesh et al., 2003) Table 1. UTAUT which was developed by Venkatesh et al. (2003) integrated eight dominant theories and models that had been extensively and successfully tested in prior studies on technology innovation adoption and diffusion in various fields. The UTAUT theory is composed on four basic concepts that are viewed as independent factors that have an effect on the dependent variables, which take the shape of behaviours and use. (Salah et al., 2019).

Table 1 SUMMERY OF DEMOGRAPHIC PROFILING				
	Description	Percentage	Frequency	
Gender	Male	60	116	
	Female	40	77	
Age	20-30 years old	19	37	
	31-40 years old	45	87	
	41-50 years old	32	62	
	> 51	4	8	
Educational level	Post-graduate	51	98	
	Other	5.9	11	
	Matric	8.8	17	
	Diploma / Degree	34.3	66	
Sector	Retail/services	17.6	34	
	Manufacturing	22.5	45	
	Engineering/Construction	50	97	
	Agriculture	8.8	17	
Position in the company	Employee	25	48	
	Owner	75	145	
Marital status	Single	34	66	
	Married	48	93	
	Divorced	18	35	
Number of employees	0-10	97.06	185	
	10-20	1.96	6	
	> 20	0.8	3	
Marketing methods	CRM	9.8	19	
	Social media	42.2	81	
Γ	Traditional methods	48	93	

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Source: Research findings, 2021

Theoretical Framework and Research Hypothesis

The constructs of the TOE have been assumed to be more relevant and applicable to large firms only, however, Awa et al. (2016) argued that the framework can been empirically validated across all firm sizes. Gono et al. (2016), noted that the TOE is an integrative framework that provides a holistic theoretical basis for research. Given that this study focuses on the analysis of factors that affect the adoption of CRM strategy and from the enterprises' perspective. The TOE framework with the information culture context as an external variable is adopted as the main research model in this study. This therefore becomes the launch pad for this research because the goal was to move away from the misconception that CRM is a technology but gravitate towards treating CRM as a holistic strategy that should diffuse throughout the organization (Figure 1).

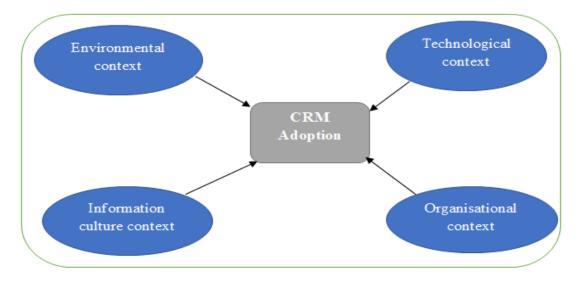


FIGURE 1 THEORETICAL FRAMEWORK

Adapted from Salah, Yusof and Mohamed (2019)

Technological Context

The technological context is connected to the external and internal technological tools and processes (Junior et al., 2019). It describes the technologies exploited by the organisation, the characteristics of technology and those which may be relevant in the future (Azevedo, 2013). External and internal technologies are vital for the enhancement of productivity within the organization. Salah et al. (2021) posited that SMEs engage in technology to improve the efficiency and efficacy of productivity. Compatibility, Technology competence, relative advantage, security, complexity and data quality are the variables in the technological context (Ngah et al. 2017) and are therefore included as the technological factors for this study. This study therefore proposes the following hypothesised relationships on technology context.

- *H*₁: Compatibility will positively influence CRM adoption.
- *H*₂: *The level of technology competence will positively influence CRM adoption.*
- *H*₃: Complexity will negatively influence CRM adoption by SMEs in KZN.
- *H₄:* Good data quality and integration will positively influence CRM adoption.
- *H*₅: Relative advantage will have a significant influence on attitude towards adoption of CRM strategies by KZN SMEs.

Organisational Context

The organisational context denotes the firm's internal traits that are capable of hindering or of facilitating CRM adoption (Gono et al., 2016). The parameters within the firm that have the most significant influence to the decision to adopt an innovation are what Chavoshi et al. (2015) referred to as organisational characteristics. These include informal and formal structures that link the communication processes, size, and dormant resources (Ahmad et al., 2015). Top management support, employee engagement, perceived benefits, firm size and financial commitment are the variables included in this construct. This study therefore proposed the following hypothesised relationships on organisational context.

H₇: Enterprises with greater TMS are more likely to adopt CRM.
H₈: Employee engagement has a positively influences CRM adoption by SMEs.
H₉: Higher perceived benefits will positively influence CRM adoption.
H₁₀: Firm size will positively influence CRM adoption.
H₁₁: Financial commitment will positively influence CRM adoption.

Information Culture Context

Information culture is another key variable in the adoption of new technology in every organisation (Salah et al., 2019). Hannachi (2015) advanced the notion that information is the backbone of CRM, thus, a vibrant information culture is paramount within the organisation. Information culture therefore plays an important role in influencing the success or failure of CRM initiatives. Information sharing, attitude towards the adoption of technology and information integrity are the variables of this construct adopted for this study. This study therefore proposed the following hypothesised relationships on information culture context.

- H_{12} : Positive attitude towards adoption of CRM influences the level CRM technology utilisation among SMEs.
- H_{13} : Information integrity has a positive effect on CRM adoption by KZN SMEs.
- H_{14} : Information sharing has a positive effect on CRM adoption.

METHODOLOGY

The research employed a quantitative methodology to facilitate and expedite the process of contacting respondents as well as gathering data (Dawson, 2007). The researchers endeavoured to identify and examine the significant factors that influence the adoption and implementation of CRM strategies by SMEs by utilising the quantitative research. This study measured the outcomes of the research against an existing TOE framework. The intention was to validate, establish and confirm relationships and to contribute towards the growth of the body of CRM knowledge. A systematic questionnaire based on the TOE framework was developed captured on a survey monkey platform and the created link was shared with the participants registered under CSERI. The participants were drawn from both rural and urban SMEs based in the eThekwini Metropolitan. The population sample included SMEs from the manufacturing (43%), engineering/construction (38%), agriculture retail (7%) and services sectors (12%). The sample size of 384 calculated using the Raosoft calculator. Following (Israel, 1992), the sample size was calculated using equation below.

$$n = \frac{n_0}{1 + \frac{(n_0 - 1)}{N}}$$

Where, n is the sample size, N the population size and no is defined by $(Z^2 \text{ pq})/e^2$, here Z² is the desired confidence interval, p is the estimated proportion of an attribute that is present in the population, and q is 1-p and e is the margin of error (Israel, 1992).

The questionnaire comprised 26 questions which included owner-manager and organisational demographics and the perceptions of the respondents with regard to the TOE framework that influence the decision to adopt and implement CRM programmes were investigated using the five-point Likert scale (Joshi et al., 2015). Data was analysed using SPSS version 27 software. Finally stepwise Logistic regression was utilised to identify key variables influencing the adoption of CRM (Rahimi & Gunlu, 2016).

Due diligence was exercised in developing accurate and valid data collection and analytical methods for the purpose of gathering information. The data collection tool was distributed to industry experts, academics, and peers for review to ensure validity and to address all study objectives. This resulted in the rephrasing and rearrangement of questions. The researchers ensured that all variables were adequately measured and pre-tested for validity with the general population (Neuman, 2014). However, the results were not included in the final analysis. The Cronbach alpha test was used to determine the reliability coefficient of the data gathering device (Abed, 2020).

DATA ANALYSIS AND DISCUSSION

Regression Model Output

This study used logistic regression to identify key variables which influence the adoption and implementation of CRM strategies by SMEs in KZN. Logistic regression is one of the main methods used to solve binary classification problems (Midi et al., 2010) like establishing whether a firm adopted and implemented CRM as part of their strategy. In this study, in order to effectively deal with multicollinearity, stepwise logistic regression modelling was adopted. A stepwise regression model was run to depict the drivers for CRM adoption and by SMEs in KZN. Forward stepwise modelling was used to select the independent variables to be included in the model to forecast the dependent variables. Logistic regression was done, whereby the demographics and factors from the TOE and information culture were treated as dependent variables and the adoption and implementation of CRM as the independent variable. The results obtained from regression model showed that education is the most significant determinant in explaining the likelihood of CRM adoption and implementation Table 2.

Table 2 CRM ADOPTION AND IMPLEMENTATION				
Variable	Beta	Sig		
CRM Compatibility	3.474	0.001		
Information Security	2.063	0.001		
Education	0.684	0.045		

Source: Garatsa and Dlamini (2021)

Education

The level of education is considered to be an important variable when it comes to CRM adoption. One needs to have the basic qualifications to venture into this sector; thus, the ownermanagers with degrees or better qualifications usually fare better when it comes to understanding the CRM concepts. Therefore, education can be viewed as a major predictor of the decision to adopt CRM. A study by Faganel & Constantini (2020) also confirms the importance of education in the adoption process. Education also has a direct influence on other factors like the attitude towards CRM adoption as it shapes one's understanding of technology. Therefore, the attitude is most likely to be swayed towards adoption. It has also been observed that education can play a key role in TC of a firm which has been noted as a major factor in technology adoption (Garatsa & Dlamini, 2021). It was noted that it is easier to get the right fit between technology and strategy if people are trainable (Gono et al., 2016). Education therefore takes away the phobia for technology. Data quality and integration have also been acknowledged as vital determinants of CRM adoption. Scholars have noted that poor data sets and integration have led to the demise of many CRM projects (Azevedo, 2013). Education can therefore be an enhancer of quality and integration.

The takeaway from this section is that though education is a strong predictor of the likelihood of adoption, it also has a moderating effect on other variables that also influence adoption. Salah et al. (2021) also allude to the fact that education is an influencer of adoption even though it is not part of the TOE framework. Collected data normally gives an insight into the characteristics of the sampled population. The level of education is also a moderating factor on variables such as information security and compatibility which were the other variables identified as the key drivers of CRM adoption and implementation by SMEs in KZN (Garatsa & Dlamini, 2021).

CRM Compatibility

Compatibility was identified as a very good facilitator of CRM adoption and implementation. SMEs usually assume the personality of the owner-manager such that the decision to adopt and implement is easier if the owner has an inclination that the innovation will fit into the existing norms and values of the organisation (Garatsa & Dlamini, 2021). The phobia for change and technology can be an obstacle to adoption; thus, the SMEs need assurance that there past experiences and current needs are addressed. These findings are in line with the Salah & Mohamed (2021) who also found out that compatibility is a major influencer of CRM adoption.

This indicates that CRM systems do not create the entire customer data alone but instead require other systems to convert data before feeding them to the CRM system. It is, therefore, crucial to ensure that the new CRM software is compatible with the present operating systems in SMEs. In other words, compatibility between new technology and existing technology affects the firm's adoption process. Compatibility reflects the level to which CRM has aligned with the organizations past experiences and current needs (Salah et al., 2021). CRM compatibility and information security are closely related when it comes to CRM adoption.

Information Security

The majority of SMEs in this study singled out information security as a major concern. The fact of the matter is that organisations are willing to adopt CRM if they are given assurance that the classified firm and customer information will be secure. On the other hand, SMEs are not willing to adopt if they feel that the systems are not secure enough to avoid leakage of vital information which will cede competitive edge to rivals. Owners would rather remain in a secure bubble than risk closure when organisational information becomes public knowledge (Garatsa & Dlamini, 2021). Confidentiality is an important issue that underlines information security. To ensure confidentiality the owners/managers will needs to use all the techniques designed for security like strong password, encryption, authentication and defense against penetration attacks. However, these may come at a cost to the business. Studies conducted by Riyadh et al. (2019) also confirm that information security has a major bearing when it comes to CRM adoption.

It can be noted that these factors are part of the technological context of the TOE framework. One can deduce that the participants view CRM as a tool and not as a strategy. The organisational and environmental constructs were not as influential at the technological constructs which is in contrast to the study carried out by Salah et al. (2019).

CONCLUSION

CRM has been recognized as critical to the success of large organizations since it is a strategy that is typically customized, making it difficult to reproduce. CRM should therefore be evaluated in the context of the SME, not as a corporate-style implementation. This study concluded that CRM can also be used to assist SMEs in growing and flourishing. Thus, technology is considered as a facilitator of the CRM approach. Factors such as organizational, environmental, technological, and information culture should all be considered in order to assist the business in making an informed decision on the adoption of CRM methods. While CRM

implementation and adoption are not without challenges, the benefits are too compelling to ignore, and so the future profitability of SMEs may be contingent upon CRM adoption and implementation.

The study outcomes revealed that education, compatibility, and security were the major drivers of CRM adoption among the SMEs that were investigated. Even though education was not part of the framework, it came out as one of the most significant factors. The level of education has a bearing on factors like employee training, TC, understanding of risk within the organisation, collaboration and sharing of vital information and it takes away the phobia of technology. It thus acts as an important moderator in the whole process. Academics and practitioners should therefore leverage on education to gain the most out of CRM adoption.

RECOMMENDATIONS

- Incubators and policy makers need to raise awareness of the benefits of CRM adoption to the incubates.
- CRM can be taught as a mainstream subject since it has a major influence on the adoption of CRM technologies.
- Research has shown that countries that have adopted CRM have resilient SMEs. Based on this study policy makers must make sure that Technological factors as well as education are leveraged upon to enhance CRM adoption by SMES in KZN.
- Importantly various theoretical model models should be empirically tested among SMEs to establish the adoption of technologies in different contexts. Education which is not part of the TOE framework was found to be a major driver of adoption in KZN which could be different in another context and location.

LIMITATIONS AND FUTURE RESEARCH

This study identified certain shortcomings and makes recommendations for future research. The first constraint is the sample size, which is limited to SMEs registered under the CSERI in KZN. Further study might be conducted to validate our theoretical model employing a bigger sample size across the entire country of South Africa. Second, our sample was drawn from a variety of industries, including manufacturing, services, distribution, and retail. It could be interesting to apply the same model to multiple industries and analyse the differences in order to tailor the model to a particular area. Finally, we focused our research on identifying the primary factors influencing CRM adoption. However, the CRM field warrants additional research into the post-adoption process in order to fully grasp the value contribution of the CRM system to the business.

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