E-commerce and entrepreneurship in SMEs: case of myBot

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Abstract
Purpose – The adoption of e-commerce in small and medium enterprises (SMEs) is a much researched topic in developed and developing nations. The application of mobile devices, and social media networks (SMNs) such as Facebook has revolutionised the e-commerce adoption process in SMEs. However, research into this area is still developing and there is a dearth of knowledge on how SMEs in developing countries enact and apply this phenomenon. The purpose of this paper is to explain how e-commerce entrepreneurship using SMN is conceptualised and applied in SMEs, and to highlight factors that influence this e-commerce innovation.

Design/methodology/approach – An interpretive and qualitative case study approach was adopted as a methodological foundation in a firm pseudo-named, myBot. The study employed the contextualism theory as a meta-theoretical framework to conceptualise and analyse the e-commerce entrepreneurship process in the firm. The study employed face-to-face semi-structured and unstructured interviews with the manager as primary means of obtaining in-depth information. Further information was obtained through website content analysis and document analysis of the firm’s reports and observations.

Findings – The results unearth a socially constructed feature of e-commerce entrepreneurship that draws from myBot’s manager’s innovative ability to use Facebook and e-mail to increase sales through its niche market. Factors that propelled e-commerce entrepreneurial activities using Facebook include trust, commitment and innovativeness.

Research limitations/implications – The revelation of this study may have changed due to the dynamic changes in the information and communication technology industry and how these are employed in a particular country and region of the world. Thus, results may not be generalised to other contexts. The study has a methodological limitation as it only had one informant who could respond to the study questions.

Practical implications – The study provides a practical application of using the contextualism theory to analyse e-commerce entrepreneurship in SMN.

Social implications – The application of e-commerce using SMNs such as Facebook widens the scope of tools that SMEs may use.

Originality/value – The study provides a theoretical lens into the understanding of an e-commerce entrepreneurship process using a contextualism theory. The paper showcases how e-commerce using Facebook can be portrayed in a developing country context.

Keywords SMEs, Entrepreneurship, E-commerce, Case study, Contextualism, Interpretive, SMN

Paper type Research paper

1. Introduction
1.1 Definitions and rationale
Small and medium enterprises (SMEs) are a significant component of many economies in the world (Ahmedova, 2015; Alyoubi, 2015; Dahnil et al., 2014). This is because of the contribution they make in creating employment and facilitating regional development and innovation (Jones and Beynon, 2011), thus impacting positively the economic status of their countries (Ghobakhloo et al., 2011). Electronic commerce (e-commerce), which is described as the buying and selling of goods and products, services and funds through computer networks, especially the internet (Turban et al., 2008, p. 8) has taken centre stage in recent times. Additionally, the definition of e-commerce does encompass other telecommunications networks such as wireless internet as adopted in Marcelo et al. (2014). E-commerce has
been viewed as a catalyst and an innovation that can enhance SMEs entrepreneurial characteristics in developed and developing countries (Alyoubi, 2015; Kurnia et al., 2015). E-commerce activities have usually been categorised as business to business (B2B) when business organisations engage with business, and business to consumer (B2C), when businesses engage with consumers (Turban et al., 2008). These definitions will lay the foundation for discussion in this study.

Social media networks (SMNs) such as Facebook, Whatsapp, Twitter, Skype and other similar technologies have assisted to re-define e-commerce due to their mobility features and the versatility of mobile devices. The term mobile commerce, or m-commerce, has been defined when products and services are transacted online (Hajli, 2015), and when the emphasis leans on the social activity, the phenomenon has been defined as social commerce or s-commerce. Researchers (Liebana-Cabanillas and Alonso-Dos-Santos, 2017; Hajli, 2015) treat s-commerce as a subset of e-commerce, thus this study draws from this definition. Bocconcelli et al. (2017) argue that SMN can be a significance resource for improving the SMEs sales process. Other than using SMNs for communication, organisations use them to create new markets, innovate and achieve efficiency (Marcelo et al., 2014). They further argue that e-commerce has been conceived as evolutionary and is a key strategy for reaching global markets for SMEs (Marcelo et al., 2014).

E-commerce adoption in SMEs has attracted research in developed countries (e.g. Liebana-Cabanillas and Alonso-Dos-Santos, 2017; Grant et al., 2014; Scupola, 2009; Pickernell et al., 2013) as well as developing countries (Kabanda and Brown, 2017; Al-Bakri and Katsioloudes, 2015; Kurnia et al., 2015; Shemi and Procter, 2013; Zaied, 2012; Olatokun and Kebonye, 2010; Molla and Licker, 2005), just to name a few. Although several studies have been undertaken and have informed current practice in certain directions, most research has explained e-commerce behaviour based on the technology aspects of e-commerce adoption (Kurnia et al., 2015), neglecting other important aspects such as the social-cultural issues that encompass SMNs.

This study draws from previous studies by Avgerou (2001, 2013) and others (Shemi and Procter, 2013; Zaied, 2012; Walsham, 2006) who argued that context is very significant in understanding the development of informations systems in organisations, as such, any studies on e-commerce adoption in SMEs must fully embrace all such characteristics. Thus, we follow a social-technical approach that aligns with the nature of e-commerce entrepreneurship process in SMEs in a developing country context. A theoretical aspect of context has been employed through Pettigrew’s (1990, 1997) contextualism theory. Furthermore, the philosophies of conceptualising and researching e-commerce using SMN have also been varied, with the majority of studies pursuing positivist studies with an objective approach (Kabanda and Brown, 2017). The summarised reporting of e-commerce activities in previous studies is problematic (Shemi and Procter, 2013) as it ignores the divergent characteristic of SMEs and the different ways of appreciating the e-commerce adoption process (Lefebvre et al., 2005). Some of the findings are conflicting (Tan et al., 2009) whilst others fail to address the complexity of e-commerce (Kurnia et al., 2015) and its changing nature affected by SMN organisation. The contextual aspects that embrace the social impact of e-commerce adoption in SMEs pose knowledge gaps that require further investigation to obtain a complete and wholistic understanding of SME e-commerce adoption process in developing country contexts. SMEs are generally known to be resource constrained in terms of finance (Woschke et al., 2017) and skilled manpower. Thus, they should concentrate on growing their business in terms of incremental innovation rather than radical innovation (Woschke et al., 2017).

Whilst noting that SMEs are unique, resource constrained (Woschke et al., 2017) and thus have different and varied experiences of e-commerce adoption (Parker and Castleman, 2009), most studies claiming to tackle the SME challenges have been narrow minded and lacked...
clear sense of direction (Sin et al., 2016). Popular theories in previous studies such as the theory of planned behaviour (TPB), the technology acceptance model (TAM) and its various extensions, the technology-organisation-environment (TOE) framework, the perceived e-Readiness model (PERM) and the diffusion of innovation theory (DIT) have generally lacked a social-cultural emphasis that is grounded in the nature and characteristics of SMEs. In order to detangle the complexities of e-commerce process in SMEs, this study employs a qualitative and interpretive case approach to unearth details of e-commerce entrepreneurship by drawing from the contextualism theory proposed by Pettigrew (1990). Calls have been made for more qualitative studies (Zaied, 2012) to explain social aspects of SME adoption of e-commerce (Kabanda and Brown, 2017), especially with SMN.

An interpretive approach was adopted to investigate the development of e-commerce in an SME, pseudo-named myBot, in Botswana. The study aimed to depict the natural environment in which myBot exists in a developing country context of Botswana; how the firm started, and how it grapples with pertinent issues regarding the acquisition of E-commerce tools, the decisions that managers make in favour of, or against e-commerce and the conflicting situations they face amidst the complex business environment. This study reports on how one small firm extended their access to global markets by taking advantage of the inexpensive SMN such as Facebook. The research questions in this study are stated as follows:

RQ1. How do SMEs incorporate SMNs to develop e-commerce adoption and entrepreneurship?

RQ2. What factors influence e-commerce adoption using SMNs?

In order to answer the above questions, the study draws from Pettigrew's (1990) contextualism theory to formulate a framework for understanding the conceptualisation, development and e-commerce entrepreneurship using SMN in a Botswana small firm. Three interrelated and interconnected components, namely, content, context and process, are drawn (Karyda et al., 2005; Pettigrew, 1997) to explain the engaging process of e-commerce and how the firm’s decision process is shaped to realise an e-commerce feature defined through the application of Facebook.

First, a background of Botswana is given in the next section.

1.2 Botswana background
Botswana is a landlocked country, with a population slightly above 2 million. It boasts one of the stronger economies in Africa that heavily depends on the mining industry. Botswana has an economy that embraces and nurtures the activities of SMEs. The Government of Botswana (GoB) is the largest consumer of information and communication technologies (ICTs) as well as the largest employer in the country, presiding over major business undertakings with the private sector.

The term ICT has been defined in various ways by authors but the following shall be adopted from Moursund (2005). ICT combines a “full range of computer hardware and software, telecommunication and cell phones, the Internet and Web, wired and wireless networks, digital still and video cameras, robotics, and so on” (Moursund, 2005, p. 4). The GoB has been looking for strategies to diversify the economy from the dominance of two sectors: mining and government (Shemi and Procter, 2013; MCST, 2007), by encouraging the participation of SMEs from various industries and sectors (MCST, 2007). Internet usage has been slow over the years but there has been a surge after 2009, as Table I from the International Telecommunications Union and Internet World Statistics shows.

Access to ICTs has tremendously improved with mobile phones being used by more than 50 per cent among individuals who access the internet. The application of ICT and electronic
commerce (e-commerce) in SMEs is a crucial area whose positive impact can add social and economic value to Botswana. Botswana’s national ICT policy (MCST, 2007) provides guidance on the application and significance of e-commerce in the country. E-commerce issues and concerns as given in the Botswana’s national ICT policy document acknowledge the disparities in the distribution of ICT products and services in the country, commonly known as the domestic digital divide (Shemi, 2013). The urban cities are relatively well supplied with radio, television, telephone and internet services, whereas the remote and rural regions are in dire need of these facilities. Within corporate entities, the general e-readiness status is comparatively higher than in individual homes, as has been shown in the Global Information Technology Report (Baller et al., 2016). The national ICT policy, which was officially published by the GoB in 2007, also shows a relatively low numbers of skilled ICT personnel in the country and is still being reflected in recent statistics. Based on the Networked Readiness Index (Baller et al., 2016) tool which is used to assess a country’s preparedness to reap the benefits of emerging technologies and capitalise on the opportunities presented by the digital transformation era and beyond, Botswana has been ranked 101 out of 143 countries that participated in the analysis (Baller et al., 2016). This is a lower ranking for a country like Botswana as other countries such as Rwanda (80th) and Kenya (89th) have surpassed it in the capitalisation of ICT for digital transformation.

Within the private sector, a few multinational organisations exist that provide professional ICT services to the GoB and other public institutions. Previous studies (Olatokun and Kebonye, 2010; Uzoka et al., 2007) to ascertain e-commerce adoption in Botswana reported a limited application of e-commerce in small and medium firms. Key challenges were poor or slow internet, concerns about security and privacy, lack of e-commerce infrastructure, lack of IT knowledge among SME managers, etc.

In the context of Botswana, the definition of SME is one that employs 1-49 persons and has an annual turnover of up to US$130,000 (with a balance sheet of US$5,000 per month) (Botswana Ministry of Commerce and Industry, 1999) with an international rate of conversion of US$1 being approximately equivalent to BWP10 (Botswana Pula).

The organisation of this paper is as follows: a review of related literature on e-commerce adoption and entrepreneurship, the application of SMNs and previous theories of e-commerce adoption are presented after this section of Introduction. This is followed by a discussion on the research framework using the contextualism theory. Section 3 presents the research methodology, followed by the results and interpretation of the findings in Section 4. The discussion of findings is presented in Section 5, and Section 6 presents the conclusion, some key highlights and implications of findings.

### 2. Literature review

#### 2.1 E-commerce adoption and entrepreneurship in SMEs

Researchers have argued that “E-commerce is a strategy for growth especially by SMEs” (Grandon et al., 2011), assisting them to compete with large firms by gaining new customers in global markets (Marcelo et al., 2014). Electronic commerce systems can be categorised

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<th>Year</th>
<th>Users</th>
<th>Population</th>
<th>% Pen.</th>
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<tbody>
<tr>
<td>2000</td>
<td>15,000</td>
<td>1,712,000</td>
<td>0.30</td>
<td>ITU</td>
</tr>
<tr>
<td>2002</td>
<td>50,000</td>
<td>1,874,610</td>
<td>3.60</td>
<td>ITU</td>
</tr>
<tr>
<td>2007</td>
<td>80,000</td>
<td>1,842,323</td>
<td>4.30</td>
<td>ITU</td>
</tr>
<tr>
<td>2008</td>
<td>100,000</td>
<td>1,952,048</td>
<td>5.10</td>
<td>ITU</td>
</tr>
<tr>
<td>2009</td>
<td>120,000</td>
<td>1,990,876</td>
<td>6.00</td>
<td>ITU</td>
</tr>
<tr>
<td>2015</td>
<td>620,000</td>
<td>2,182,719</td>
<td>28.40</td>
<td>IWS</td>
</tr>
</tbody>
</table>

**Table I. Botswana internet statistics**
into two parts: the simplest level which covers the promotion and advertising of products and services, and electronic distribution of goods, and the second and advanced level which includes payment and distribution at local and global levels (Al-Bakri and Katsioloudes, 2015). Although e-commerce benefits have been observed at country levels such as in China, USA, Brazil (Alyoubi, 2015), Australia, Denmark, Canada, Malaysia, Sweden, Portugal, just to name a few, its benefits have not trickled down to the majority of businesses (Savrul et al., 2014; Molla and Heeks, 2007).

Early studies in e-commerce adoption suggested that organisations undergo stages of growth in their adoption of ICT and e-commerce technology in a linear fashion, from one stage to a higher level, in a well-planned, sequential process (Daniel, 2003; Taylor and Murphy, 2004). A common feature in these early studies was an inclination towards technology aspects of e-commerce adoption process. Some researchers categorised e-commerce development activities into two: initial adoption and later institutionalisation stages (Grandon et al., 2011; Kapurubandara, 2009; Tan et al., 2007; Molla and Licker, 2005). In the manufacturing sector of Canadian SMEs, Lefebvre et al. (2005) undertook a study aimed at capturing the gradual enfolding of B2B e-commerce in SMEs. They found a logical evolutionary path in the penetration of e-commerce. Their findings point to a realisation of more benefits from e-commerce than first conceived. It was also noted that SMEs had tried innovative and entrepreneurial ways and were eager to improve their business operations using the websites (Lefebvre et al., 2005). Common e-commerce activities in early studies were e-mail and the internet, with limited application of websites.

Early models faced criticism that they were too simplistic and the linear progression they proposed could not capture the complex nature of small-firm activities (Kabanda and Brown, 2017; Parker and Castleman, 2009). Furthermore, early e-commerce studies in SMEs put more focus on technology aspects (Kabanda and Brown, 2017), with the assistance of theories such as the TAM and its derivatives, and other similar theories such as the TPB. Previous studies were unable to account for unexpected changes in the development of e-commerce in the organisations and could not fully account for why some SMEs thrived in some regions and others did not.

Previous studies have noted that SMEs in developing countries are generally slow in developing e-commerce (Kabanda and Brown, 2017; Kabongo and Okpara, 2014; Zaied, 2012) as compared to those in developed regions of the world (Rahayu and Day, 2015; Shemi, 2013).

With respect to Asian countries, Jahanshahi et al. (2013) undertook a study in India, Malaysia and Iran to ascertain e-commerce benefits achieved by SMEs. They found that “an enhanced company brand and corporate image” are an e-commerce advantage and “security and privacy” are key concerns. Their findings on security concerns corroborate previous findings by Olatokun and Kebonye (2010) in Botswana, and Zaied (2012) in Egypt. A survey study on 292 Indonesian SMEs by Rahayu and Day (2015) found that perceived benefits, technology readiness, owners’ innovativeness, owners’ information technology (IT) ability and owners’ IT experience are the determinant factors influencing Indonesian SMEs to adopt e-commerce.

E-commerce has been dubbed a complex phenomenon (Alyoubi, 2015) and a social-technical endeavour in SMEs (Sarosa, 2012). As new trends in ICTs are being developed, the application of e-commerce in SMEs needs to transform to conform to new standards of business, and systems of operations. This, in turn, generates interest to understand how e-commerce adoption evolves in organisations, how SMEs conceptualise the transformation of e-commerce using SMN, and the philosophies they employ and how the actors of change incorporate SMN to improve the e-commerce process. Researchers have defined entrepreneurship with a focus on the originator and owner of the business (Eijdenberg et al., 2015), who sometimes goes further to be a “risk taker” after taking steps...
to create a small business. This study aligns with the understanding of e-commerce as an entrepreneurship and undertakes to investigate the entrepreneurial traits of key managers that introduce an innovation using SMN.

Studies on entrepreneurship and small businesses have been lacking in developing countries (Eijdenberg et al., 2015). In a study on least developed countries (LDC) in Rwanda, Eijdenberg et al. (2015) investigated the relationship between entrepreneurial traits and small business growth; they concluded that “entrepreneurial motivation is not a clear distinction between necessity and opportunity, but that a mix of motivations is important to assess the growth of small businesses in an LDC” (p. 212). The study by Kabongo and Okpara (2014) on the IT possession among Congolese SMEs provides similarity to the analysis of e-commerce adoption and entrepreneurship in this study. The IT possession can be considered a proxy for e-commerce adoption in SMEs. However, it was not clearly mentioned for what purpose the Congolese SMEs were using IT. It was found that the telecommunications sector had the highest usage amongst the SMEs (Kabongo and Okpara, 2014).

Ghobakhloo and Tang (2013) studied the role of owner managers in the adoption of e-commerce among SMEs. Perceived benefits, perceived compatibility, perceived risks, perceived costs and innovativeness were found to be the significant determinants of decisions to adopt e-commerce (Ghobakhloo and Tang, 2013) aligning with earlier studies by Ghobakhloo et al. (2011). In Portugal, Cragg et al. (2011) found that a low level of organisational readiness slowed the development of e-commerce among SMEs. The study by Awa et al. (2015) shows that SMEs in Nigeria are yet to exploit the full potential of e-commerce solutions. The study also reports several challenges such as non-transparency in government support programs, location factors, weak finances, firm’s size, confidentiality of information, infrastructural inadequacy and lack of openness and business integration. In a Turkish study to determine the potential of e-commerce in a globalised business environment, Savrul et al. (2014) identified internal and external factors that affect SMEs. The internal organisational factors were SMEs e-commerce strategy and the perceptions and experience of managers. The external factors were the readiness of local and global trading partners (TPs), and the external pressure by local and global TPs to adopt e-commerce systems, including the infrastructure, network availability and online transactions.

In summary, the initial e-commerce adoption in SMEs has the following inhibiting challenges: lack of technology, cost, cultural values, lack of management enthusiasm, security, privacy concerns (Mohammed and Tejay, 2017; Olatokun and Kebonye, 2010) and lack of credit finance (Awa et al., 2015).

The advanced level of e-commerce growth in SMEs features the application of websites for interaction with consumers in the local and global markets for making online payments. In Malaysia, Ramayah et al. (2016) studied the intention of SMEs to continue to employ websites for advanced operations. They found critical determinants were chief executive officer’s (CEO) innovativeness, CEO’s IT attitude, relative advantage and cost. These findings are similar to those of Olatokun and Kebonye (2010). In Thailand, Ueasangkomsate (2015) lamented the lack of capitalisation in export business in SMEs, whereas Pickernell et al. (2013) found varied experiences of e-commerce trading ability in UK SMEs. Ramayah et al. (2016) have noted that website utilisation has been challenging generally, and scanty successes have been noted in developed and developing countries alike.

Avgerou and Boyi (2013) explain the emergence of networks of micro-entrepreneurs that conduct business on a web platform known as Taobao in China. They demonstrate “two case studies of networks that show how Web platform tools and services create conditions of possibility for developing online business by micro-entrepreneurs and for overcoming cultural reluctance of economic exchange with strangers” (p. 329). They further claim that “economic activity on Web platforms is embedded in a mix of virtual and community-based
relations that are shaped by and alter the behavioural norms of a local culture” (Avgerou and Boyi, 2013). This study exemplifies some interaction of web technology and SMN in the SME to improve and advance the e-commerce process in the Botswana context.

2.2 SMNs and E-commerce adoption in SMEs
The application of SMNs such as Facebook, Twitter, Whatsapp and other similar technologies has been associated with the extension of e-commerce especially as consumers interact to extend a business transaction (Bocconcelli et al., 2017; Jones et al., 2015; McCann and Barlow, 2015; Sarosa, 2012). Furthermore, a business transaction could come as a result of interactions of various components within, and outside the realm of an organisation. Researchers (Liebana-Cabanillas and Alonso-Dos-Santos, 2017; Hajli, 2015) treat social commerce as a subset of e-commerce. Whereas e-commerce has relied on the website to complete a business transaction, s-commerce usually employs other channels agreed upon by its participating actors to complete the buying process (Liebana-Cabanillas and Alonso-Dos-Santos, 2017).

In a study to analyse the use of SMN and patterns of behaviour by SMEs in Portugal, Fernandes et al. (2016) identified two types of social network use. These are: product-client interaction and knowledge/research; and market orientation. According to Bocconcelli et al. (2017), SMN are a key resource in improving SME sales process, thereby assisting SMEs to overcome their size-related limitations. In Indonesia, Sarosa (2012) has reported keen interest by some SMEs to incorporate SMN to improve their business operations. This study aims to explain this social-technical innovation and the e-commerce process that incorporated Facebook as a tool for reaching new markets.

The extant literature (Alsaad et al., 2017; Liebana-Cabanillas and Alonso-Dos-Santos, 2017; Hajli, 2015; Gefen et al., 2003) has postulated the role of trust in e-commerce decisions to buy. Trust comprises two main dimensions: cognitive and behavioural (Liebana-Cabanillas and Alonso-Dos-Santos, 2017). According to Gefen et al. (2003), online trust is built through the following: a belief that the vendor has nothing to gain through cheating; a belief that there are safety mechanisms built into the website; by having a typical interface; and one that is easy to use. This study aims to explore the role of trust in the context of SME websites and a consideration of other organisational and environmental factors in the application of B2C in a developing country. Furthermore, Gefen et al. (2003) argue that trust is a social antecedent, whereas other notable TAM variables such as perceived ease of use and perceived usefulness are technological antecedents. There is a likely chance that the social-technical interaction can take place through the web platform and the characteristic of trust to actualise an e-commerce entrepreneurial process, drawing from Avgerou and Boyi (2013). This study aims to investigate these phenomena by enacting an SME e-commerce environment in the Botswana context. Table II presents a summary of the factors enabling and inhibiting e-commerce adoption in SMEs.

2.3 Previous theories of E-commerce adoption research
Previous studies have employed various theories to study e-commerce adoption in SMEs. The most common and popular ones are the TPB, the TAM, the TOE framework, the PERM and the DIT. As argued by previous studies (Kabanda and Brown, 2017; Shemi and Procter, 2013; Gefen et al., 2003), most theories have focussed more on technology, and so are unable to reveal the social-technical nature of e-commerce adoption in SMEs.

The next section tackles the contextualism theory proposed by the theoretical framework of this study.

2.4 The theoretical framework for this study – contextualism in e-commerce
The theory of contextualism was proposed by Pettigrew (1987, 1990, 1997) in his studies on organisations and change, which outline three components that concern human action at the
organisation level: these are content, context and process. Pettigrew (1990, p. 268) explained that “theoretically sound and practically useful research on change should explore the content, contexts, and process of change together with their interconnections through time”. Furthermore, he argues that there must be explicit acceptance that change in organisations is multifaceted, “involving political, cultural, incremental, environmental, and structural, as well as rational dimensions” (p. 268). Early studies on the contextualism theory in information systems (IS) have been applied by Walsham and Waema (1994) in studies on the IS strategy change in organisations, and Walsham and Sahay (1999) IS public administration. They defined content as the intended IS drawn on in process and can be viewed as an aspect of planned changes to products and services, business processes, organisational structures and roles/cultural and political attitudes. Context was defined as the outer and inner issues relating to IS at different levels in the organisation, and the broader organisational, sectoral and national IS contexts, IS social relations, the infrastructure and history. Process is defined as the “Interconnectedness of events and actions over time. This includes cultural as well as political perspectives” (Walsham and Waema, 1994, p. 156).

E-commerce adoption, which is an aspect of IS, is viewed as a process of change in this study, assisting the firm to alter the processes of negotiation, buying, selling, investing and banking through e-mail, internet, the application of the website and Facebook interaction. Such a process may be influenced by various actors and actions, structures and roles, cultures and managerial inclinations that are influenced from internal and external conditions of e-commerce. Drawing from Walsham and Waema’s (1994) IS Contextual

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<th>Factors</th>
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<tr>
<td><strong>Enabling factor</strong></td>
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<tr>
<td>Technology readiness,</td>
<td>Mohammed and Tejay (2017)</td>
<td></td>
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<tr>
<td>organisational readiness</td>
<td></td>
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<tr>
<td>CEO owner/manager innovativeness or entrepreneurial</td>
<td>Ramayah et al. (2016), Gobakhloo and Tang, (2013)</td>
<td>Malaysia</td>
</tr>
<tr>
<td>Commitment of owner/manager to change</td>
<td>Jahanshahi et al. (2013)</td>
<td>East Asian SMEs</td>
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<td>Perception and experience of owner/managers, CEO attitude</td>
<td>Zaied (2012), Savrul et al. (2014)</td>
<td>Egypt</td>
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<td>Trust between participating actors</td>
<td>Liebana-Cabanillas and Alonso-Dos-Santos (2017), Hajli (2015), Alsaaed et al. (2017)</td>
<td>USA, Portugal</td>
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<td>Jahanshahi et al. (2013)</td>
<td>East Asian SMEs</td>
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<td>E-commerce strategy</td>
<td>Savrul et al. (2014), Marcelo et al. (2014)</td>
<td>Turkey, Italy</td>
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<td>Online transactions</td>
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<td>Turkey</td>
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<td>Infrastructure, network availability</td>
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<td>Cultural values</td>
<td>Mohammed and Tejay (2017), Averou and Boyi (2013)</td>
<td>China</td>
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<td>Poor CEO attitude</td>
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<td>Poor website usability</td>
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<td>Malaysia, Egypt</td>
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<td>Awa et al. (2015)</td>
<td>Tanzania, Nigeria</td>
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</table>
framework, specific areas of consideration for e-commerce adoption using SMN have been developed from this study as shown in Figure 1.

Content issues of e-commerce using SMN represent what the firm intends to use, as defined by managers, including the structure and roles; context defines how the internal and external environment have been described and articulated; and process defines the cultural and power interpretation of e-commerce using SMN in the firm. It must be noted, borrowing from Walsham and Waema (1994, p. 156), that “although elements of the various components have been identified separately for analytical purposes, they are invariably interconnected in practice”.

A particular benefit for drawing from this framework in the interpretive paradigm is in cognisance of the realisation of the various social relations, mechanisms and forces operating at different levels of the organisations and across the various units of the firm. This is supported by Pettigrew (1997, p. 338) who described a process as “a sequence of individual and collective events, actions and activities unfolding over time in context”. It is also naturally understood that the enactment of the e-commerce process in the organisation draws from the characteristic of e-commerce that embodies social processes (Shemi, 2013). Therefore, “it is too narrow to see change just as a rational and linear problem-solving process [...] explanations of change have to be able to deal with continuity and change, actions and structures, endogenous and exogenous factors, as well as the role of chance and surprise” (Pettigrew, 1987, p. 658).

The framework will be employed as a meta-framework in the interpretive paradigm to provide a theoretical lens in the understanding of e-commerce adoption changes in the firm. Hence, an inductive case research will be followed to trace social processes that affect and are affected by e-commerce actions and structure, roles and culture in the firm. As argued by Walsham and Waema (1994, p. 156), it is imperative that the researcher “does not place too great an emphasis on fitting the data to the framework, rather than seeking to interpret events and actions as encountered” in the case.
3. Research methodology

3.1 The research approach and design

This study followed an interpretive tradition (Walsham, 2006; Shemi, 2013) as a main paradigm to answer the research questions in an in-depth manner. An interpretive, qualitative case study was chosen as a means of unearthing detailed issues that shape the conceptualization and development of e-commerce in a natural setting. Amongst the pool of SMEs that were identified to be developing e-commerce and had agreed to participate in the study, myBot (a pseudo-name) was selected and an appointment was scheduled with the general manager, pseudo-named Lerato, for purposes of anonymity. Semi-structured face-to-face interviews and unstructured interviews were employed as the main method of enquiry. The researcher, who is the author of this paper, explained the purpose of the study and how the engagement with the firm would be carried out. Interviews were scheduled for 30 min to an hour and took place over a span of eight weeks from September 2010 to December 2011. Website content analyses and observation of the working environment were also employed at the close of the interview process.

As with the interpretive (Walsham, 2006) norm, the researcher employed a subjective enquirer role that oscillated between close engagement (Nandhakumar and Jones, 1997) to understand the various roles and decisions taken by the manager for initiating and improving e-commerce adoption, and withdrawing at certain instances to undertake reflection on the issues that had been gathered from the interviews. Care was taken to avoid pushing for e-commerce opinions that were well known elsewhere, a culture that largely aligns with objectivism, which is a positivist trait (Kabanda and Brown, 2017; Shemi, 2013).

3.2 Data collection and data analysis

Data collection and data analysis overlapped to allow early analysis (Miles and Huberman, 1994). Semi-structured and unstructured face-to-face interviews formed the main methods of interacting with the firm. Five face-to-face interview sessions were carried out with the manager of myBot in two phases of the fieldwork period, at the organisation’s premises. A sample of the questions that were developed, after the review of literature, was sent in advance to allow the interviewee to be familiar with the research questions. The questions were asked in an interactive manner to allow the manager to describe various issues. Interviews were either taped or phone recorded and later summarised for further analysis. Short notes were written as the interviewee answered the questions which were later read to the interviewee before leaving the premises.

The first category of questions focussed on the nature and background of the organisation: the size, location, number of employees, the type of ICT being used and on what activities, the type of internet connection, whether the organisation had a website, the mobile devices used for communication, reasons for developing these services and the reasons why, if they did not apply. Issues that related to the mission and business objectives, culture and structure were probed as well as the educational background of the manager, their interest in growing the business and where they were leading the firm.

The second category of questions related more to the use of internet, e-mail and web technologies, mobile devices and the extent of their use. In linking up with the first set of questions, the research was interested in knowing the relationship between the business objectives and myBot’s internet applications. This would build up to questions that related to benefits and challenges of using internet, web technology, and other applications where possible. The researcher also interacted with the interviewee (Lerato) in such a way that there was one level of understanding of what e-commerce is, without making her feel uncomfortable or uneasy. This level of investigation naturally evolved into the third category of questions. The third category of questions focussed on the challenges that
myBot was facing in using internet, web technology, any other ICTs they were using, and any challenges they were facing, and what efforts, if any, were being employed to overcome the said challenges.

4. Results
Given the framework of contextualism in Figure 1 that was discussed earlier, this section provides the constituent areas that interacted over time to give a picture of myBot’s position relating to e-commerce entrepreneurship. Thus, the resultant position of the firm is a reflexive outcome of interactions of key components such as organisational characteristics, the structure and role; web application; Facebook and e-mail applications; managerial perception and intentions to innovate using Facebook; and the local business conditions that facilitated or limited the process of e-commerce entrepreneurship.

4.1 Aspects of content and context on the nature, vision and history of myBot
The small firm, myBot, was established in 1970 by one of the key public firms in Botswana with a purpose of developing the rural-based handicraft industry. The main objective and vision was to assist rural Botswana women to find market for their basketry and other handicrafts, and thereby provide a source of income for their sustenance. Another purpose was to showcase Botswana’s agricultural and tourism history that was portrayed in the art and craft materials. However, sales could not improve significantly. In 1993, myBot became a private organisation, and the firm improved its direct marketing and innovation strategy by targeting the buyers and sellers throughout the Southern African region and beyond. MyBot became influential in assisting rural women weavers in the formation of business groups. In addition, myBot assisted in publishing images about each weaver beside their product on their website.

In 2002, the firm was bought by the current management team. Over 80 per cent of myBot’s turnover comes from selling handmade crafts, and it has now become the largest exporter of arts and crafts products in Botswana. At the time of the field work, there were 35 employees that assisted in executing myBot’s business mandate.

4.2 Aspects of context on business characteristics of myBot
The business mainly focussed on the shop at the beginning, showcasing various traditional products, but in recent years, myBot has expanded to two more units, a restaurant and conference centre. The restaurant also provides traditional meals that can be served to visitors. Most of the buyers of myBot’s handicrafts buy the products from the shop. The GoB is the biggest buyer, followed by some private firms and a smaller portion comes from individual tourists who visit the firm and those who buy online, mainly from the USA.

Adding to the uniqueness of their products, myBot claims to contribute to preserving the Botswana culture by maintaining a gallery that showcases the local women weavers who are the designers of most of the baskets and artwork being sold in the shop. For ethical purposes and to protect the privacy of individual weavers, the artwork has not been disclosed. The gallery also stocks some products that are sourced from neighbouring countries such as South Africa, Namibia, Zimbabwe and others. Another business facility at myBot is a restaurant facility that provides traditional and exotic meals to the public especially those that visit the shop. The conference centre facility was another option for generating income for myBot. Some traditional activities such as music shows are also held to raise awareness and educate the public about the history of Botswana.

4.3 Aspects of context in use of ICTs, web-based applications and SMNs
There is no computer department at myBot and most workers are illiterate in the use and appropriation of computers. Of the three departments operating at myBot, the use of
computers is mainly in the shop, assisting with the point of sale system. This, however, is not connected to internet. A disc operating system had been used to facilitate their point of sale system operations. However, this is too old and not compatible with most modern operating systems such as Windows. It was not possible to retrieve sales information using the old storage devices. The delay in changing over, according to Lerato, has been due to:

[...] lack of finance and specialised ICT personnel who can implement this change for us.

myBot began online business around the year 1999. The reason for developing the website was to meet the needs of the foreign tourists who were unable to travel to Botswana but could access information about traditional Botswana artefacts on the internet. The company has a local presence (.bw) through a Botswana internet service provider (ISP). An international .com presence had been in existence in the USA until late 2010 when this option ceased. Thus they hosted their web domain through a local presence (.bw). Lerato explained that before the global economic recession in 2008 and 2009, business transactions generated through myBot’s website accounted for 30 per cent of all company sales, but she stated that the sales dropped tremendously and that they had now started to improve as follows:

[...] after the recession, sales dropped to less than 5% and sometimes even lesser but this has started to improve again. We now have up to 10% of sales generated through the website.

myBot has advertised some of the arts and crafts products. The online store shows some of the items that are displayed in the gallery, such as basketry, with prices indicated alongside each item. Further, it provides information for viewers who want to proceed to make a purchase. Other than the baskets and bowls that are marketed on myBot’s website, there are also San crafts, also known as Bushman crafts. There are also books and various traditional items on the Botswana culture and its history, being marketed on myBot’s website. These items could also be purchased physically from the shop.

Customers accessing myBot’s website can view some of the products and may opt to complete the business transaction through e-mail and later pay through normal banking methods such as electronic funds transfer (EFT) or by credit card. The purchased item is later dispatched by express courier to the buyer. Still then, Lerato would like to assure her clients of the social element of trust that can be embedded in the online transaction, as she explained:

The experience of my boss some years back is that people like the individual touch, they would like to be able to communicate, get to know you slightly in a way, rather than just staying on the website, filling in an order form [...].

All our orders that we’ve had so far, have results from e-mails that I can quote. Well, there’s an option that they can click on the website if they want ten of these, or whatever number they choose, but they don’t do that [...].

So even people who are re-ordering, they would rather email first, chat a bit and then go to place an order. I guess they are a bit hesitant because they don’t know Botswana that well, and if they do, possibly they may not know myBot.

Some information was also obtained regarding the yearly turnover of exports at myBot. Figure 2 shows a sharp decline in export sales for the period 2007-2011 due to the global recession that began in 2008. The results for 2011 did not include the month of November and December 2011, hence the low figures.

myBot had started marketing its products on Facebook, and Lerato noted that other markets such as Japan, the UK and rest of Europe had started to respond by sending inquiries. The manager suspected that the influx of mails could have been due to the new channel of social networking using Facebook.
A website content analysis based on 13 characteristics of an e-commerce website as suggested by Choudhury and Choudhury (2010) shows the following in Table III. A tick (✓) indicates the presence of a feature on the website and a blank indicates the absence of a feature.

There are no payment features on myBot’s website as payment as shown in Table III. Hyperlinks are provided to connect to women weavers, who supply the traditional artefacts to myBot. There are no visitor statistics being captured through myBot’s website.

Interactivity through SMN was implemented through Facebook and enabled repeat buying once the consumer returned to the USA. Lerato confirmed that all e-commerce transactions using Facebook, and sometimes in conjunction with her mobile phone, were repeat transactions and no new clients had been engaged as first-time buyers solely through the website information. The type of e-commerce being represented above is mainly B2C, with s-commerce or mobile commerce being the defining norm through Facebook interactions.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Evidence in the case</th>
</tr>
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<tbody>
<tr>
<td>Security</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>Appearance</td>
<td></td>
</tr>
<tr>
<td>Adequate information about products and services</td>
<td></td>
</tr>
<tr>
<td>Speed in downloading the pages</td>
<td>Very slow</td>
</tr>
<tr>
<td>Navigation friendly</td>
<td></td>
</tr>
<tr>
<td>Search option/search engine</td>
<td></td>
</tr>
<tr>
<td>Hyperlinks to other information</td>
<td></td>
</tr>
<tr>
<td>Information on member facilities</td>
<td></td>
</tr>
<tr>
<td>History and profile of the company</td>
<td></td>
</tr>
<tr>
<td>Ability to obtain information in limited number of pages instead of browsing several pages</td>
<td></td>
</tr>
<tr>
<td>Option for providing feedback from customers</td>
<td></td>
</tr>
<tr>
<td>Visitor statistics</td>
<td></td>
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<tr>
<td>Availability of interactive online activities</td>
<td></td>
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</tbody>
</table>

Table III. myBot’s website analysis

Figure 2. Export sales data for myBot from 2007 to 2011
4.4 Aspects of context and process in manager’s perception and entrepreneurial choices for e-commerce

The manager’s perception and attitude provide the direction for e-commerce appropriation at myBot. These are key elements that can impact positively or negatively in the adoption of e-commerce at myBot. Lerato explained the managing director’s position, by saying that:

My boss is very enthusiastic about Internet and what it can do for myBot. He’s very keen to try out and discover new ICT innovations.

At the organisational level, Lerato’s educational background adds a positive dimension to the management of myBot, giving it a strategic direction in the application of internet and e-commerce entrepreneurship. There was evidence of enthusiasm in the knowledge and utilisation of e-mail, internet and social media applications that can boost myBot’s business outlook. However, such enthusiasm was somewhat lacking among other staff in the organisation.

4.5 Aspects of context and process in factors affecting e-commerce adoption using SMN

Several contextual factors seem to interact to influence myBot’s ability to use web applications and Facebook commerce. Lerato explained the need to develop e-commerce in the firm but lamented the lack of skilled ICT personnel, as she stated:

myBot has a desire to further develop its e-commerce offerings but at the moment it is difficult as there is no one person dedicated for this task.

At the beginning of fieldwork in September 2010, the only products that were displayed on myBot’s website were baskets, but later in the year, other products were included such as San crafts, books about Botswana culture and music CDs. Lerato had explained that time was a key factor in the development of e-commerce as she had to take up this role besides other responsibilities of managing the business. Another constraint that Lerato lamented about was the slow speed of the internet. In one of the interviews, she explained that:

Internet speed is still very slow and the cost of maintaining Internet is high for us.

She later disclosed that on average, the annual rate was about Botswana Pula 2000 (slightly less than US$200). A key challenge for the development of e-commerce at myBot is how to meet the salary demands of skilled ICT personnel who could focus on further website improvements. Thus, she hoped for improvement in the business sales so that e-commerce issues could pay for an additional staff with ICT expertise. Further, the lack of funding for e-commerce projects was another factor impeding website improvement for myBot. It was not the intention of management to seek other sources of finance. This aspect appears to be exerting the power that top management had in driving e-commerce using SMN.

The results show that there are more significant organisational factors that drive e-commerce adoption than factors that hinder it at myBot. With regard to context at myBot, management had decided to interact with buyers as a way of trying out how Facebook worked. It was learnt that online consumers were repeat buyers, those that had physically visited the firm in Botswana. They then would return home and place orders through the website using the identified codes. Once the consumer was satisfied of a safe transaction, they then place orders through e-mail but with reference to items that existed on the website. Lerato explained that she would personally follow up the orders with telephone calls to verify the validity of the sender and the order details. Cash payments are facilitated through credit card by traditional banking methods or EFT.

The factor of trust can be seen to be enacted through s-commerce, confirming Hajli (2015) and Avgerou and Boyi’s (2013) work in China, where online trust was assisted through physical verification. This implies that security concerns are still considered critical in the e-commerce environment described above.
5. Discussion of findings
This section is presented with respect to the research questions as follows.

5.1 How do SMEs incorporate SMNs in e-commerce adoption and entrepreneurship?
The manager’s innovativeness and ability to link with previous clients gave myBot a push to realise the potential of Facebook. This can be drawn from the culture and power aspects that are defined in the contextualism theory. Operating from a scenario where resources for updating the operating system, and other requisite ICT applications are either limited or of low quality, myBot has been able to capitalise on the ease of doing business using Facebook.

E-commerce adoption and entrepreneurship using Facebook are modelled through a social environment enabled by trust. This is a unique feature that the organisation has pursued and can create a long-lasting economic relationship between myBot and its global clients in the USA. The findings of this study have illustrated the significance of Facebook in advancing e-commerce adoption at myBot. This corroborates previous studies (Bocconcelli et al., 2017, Fernandes et al., 2016; McCann and Barlow, 2015; Dahnil et al., 2014) that found that SMN such as Facebook have a significant role to play in SME e-commerce development. This is done in conjunction with other tools such as the internet and e-mail, wherever possible. The findings are partly similar to Kabanda and Brown’s (2017) research in Tanzanian SMEs which noted the inclination towards cultural bargaining systems such as face-to-face, and a limited use of website applications for e-commerce adoption. However, there is some contrast as Facebook discussion continued to enforce trust before payments could be made through the bank. It must be mentioned as well that all credit card purchases were completed by persons that had first visited the shop.

The finding at myBot corroborates the study by Fernandes et al. (2016) especially in the market orientation aspect. In this case, the niche market in the USA provides an extension of e-commerce entrepreneurship. Furthermore, this is similar with Ayoubi’s (2015) work in China which demonstrated how social networks can be enacted with web technology to achieve an economic gain for the firm. However, the role of the website at myBot is still of a limited nature, except that of advertising its products.

In terms of the limitation of the website application, the findings are consistent with previous findings by Ramayah et al. (2016) in Malaysia, Kabanda and Brown (2017) in Tanzania and early research findings by Molla and Licker (2005) in South Africa and Lefebvre et al. (2005) in Canada.

5.2 What factors influence e-commerce adoption using SMNs?
The manager’s innovativeness and commitment are key factors that stand out in this case. Unlike the findings of other studies in previous literature where SME managers were relaxed, lacked ICT knowledge for innovating e-commerce adoption (Kabanda and Brown, 2017; Molla and Licker, 2005), the manager at myBot showed keen interest to improve her firm’s entrepreneurial position by personally seeking better ways of establishing linkages with visitors to the shop. The manager has been enthusiastic and optimistic to develop business relationships using Facebook beyond what is normal in the Botswana context. These results corroborate results revealed by Ghobakhloo and Tang (2013) and Ghobakhloo et al. (2011).

Another key factor is trust, as envisaged in the completion of the buying process. Trust can be seen to be enacted between two parties: the manager Lerato on myBot’s side and the global consumers. This aligns with Liebana-Cabanillas and Alonso-Dos-Santos’s (2017) characteristics of trust, that of being cognitive and behavioural. The physical visitation of the buyers enabled them to establish trust which they depended on when making repeat orders. The findings align with previous findings (Alsaad et al., 2017; Bocconcelli et al., 2017) that emphasise the significance of trust in e-commerce adoption process using SMN.
5.3 Reflection on contextualisation – Figure 1
Going a little further, it is imperative to borrow from the thought of Pettigrew (1997) who argued that contextualism is a “natural way” of embracing change in organisations. However, change using SMN such as Facebook, for example, may not necessarily be the same for every organisation. Each organisation has their own understanding, definition as well as interpretation of content, context and process that should reflect how SMNs are applied. It is practically impossible to predict the results, much as others may want to. Furthermore, the application of the framework in Figure 1 may not be applied word for word or phrase by phrase as argued by Walsham (2006), rather the framework is a kind of a guide to understanding e-commerce entrepreneurship in one small Botswana firm. Results of the study and the application of Figure 1 have been summarised in Table IV.

6. Conclusion
This study has explained how an SME, pseudo-named myBot in a developing country, has incorporated SMN in e-commerce adoption and entrepreneurship process. The research was undertaken using a qualitative and interpretive approach that involved close interaction with the SME manager to reveal contextual and social issues that affected the e-commerce development process. Primarily, social commerce using Facebook is the main types of e-commerce that ensued between the consumers in the USA and myBot. The main factors are trust between the participating actors, the manager’s commitment and innovativeness.

<table>
<thead>
<tr>
<th>Aspects of contextualism</th>
<th>Figure 1</th>
<th>Application of results at myBot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content</td>
<td>Organisational structure and roles as interpretation of E-commerce using Facebook Changes to the norms and attitudes, existing work practices in using e-commerce Changes to hardware, software and related technological infrastructure used</td>
<td>Management structure is basic; the manager takes on the role of ICT officer. Investigates what is best for her firm and makes decision for the best affordable option Slow speed of the internet. MyBot hardware and Software have not changed much in years, except for the website development which does not allow payment</td>
</tr>
<tr>
<td>Context</td>
<td>Outer context: economic, legal, political, social, competitive and sectoral factors that are found in the environment of the organisation for defining and articulating e-commerce using SMN Inner context: managerial, structural, political, social and cultural elements within the organisation for defining and articulating e-commerce using SMN</td>
<td>Lack of explicit laws on e-commerce for Botswana SMEs The financial position of firm does not permit it to focus on IT experimentation. High cost of maintaining internet Enthusiasm in the knowledge and utilisation of e-mail, internet and Facebook that can boost myBot’s business outlook There is no one person dedicated for this task No payment features on myBot’s website</td>
</tr>
<tr>
<td>Process</td>
<td>Cultural perspective: the formulation and implementation of e-commerce process on the existing culture; the norms and rules and have the potential to affect them, therefore these processes can have an impact on the social context Power perspective: involved in the formulation and implementation e-commerce using SMN; policy altering or reinforcing the context in which they take place</td>
<td>Trust between the parties The manager takes on full responsibility to engage with prospecting buyers Transactions take place using traditional banking Manager is committed to push for engagement using e-commerce using Facebook This shows innovativeness as well Customers place orders through e-mail using reference codes that exist on myBot’s website</td>
</tr>
</tbody>
</table>

Table IV. Application of results of Figure 1
The application of contextualism assisted in providing a theoretical lens for understanding the e-commerce entrepreneurship process as well as placing an emphasis of the practical application in an SME context. This paper makes a theoretical contribution to literature on e-commerce using social commerce in African SME contexts. The use of theory to provide an understanding of SMEs is another value provided from this study. The paper discusses and applied the contextualism theory (Pettigrew, 1990) to assist in exploring the nature of SME environment for e-commerce development using SMN.

Future research could look into other SMNs such as WhatsApp, Twitter, YouTube, Myspace and other tools, and how they contribute to e-commerce entrepreneurship in resource-constrained SME environment in other industries, and regions of the world. Comparative studies on SMN are also possible. In terms of future implications, further studies could involve other global consumers to obtain a complete picture of online trust in the application of SMNs such as WhatsApp, Twitter, LinkedIn and other popular SMNs. Other studies could investigate social processes that enable s-commerce.

The presentation of this study has some limitations. The revelation of this study may have changed due to the dynamic changes in the ICT industry and how these are employed in Botswana. Thus, results may not be generalised to other contexts. The study has a methodological limitation as it only had one informant as per the nature of the SME. Further work is needed to establish the nature of e-commerce entrepreneurship in firms that employ other mobile devices and SMN applications, and have a wider reach of global consumers.

The application of theory in this study inclined towards interpretive and qualitative analysis, which may not be a familiar domain for most readers.

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**Further reading**


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