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## An exploratory study on the impact of social media of selected commercial banks in the Eastern Cape Province, South Africa

### Abstract

The emergence of social media in financially high-risk institutions has had a negative impact on employees' perceptions towards utilization of social media for team collaboration and communication. This study investigates social media impact in commercial banks and explores the contribution it has brought among teams, thus, ascertaining collaboration and effective communication within the banking industry. It adopted a quantitative research method whereby 194 questionnaires were distributed and 102 completed, thereby generating a response rate of 53%. The study findings revealed 60% of the research participants who agreed, 14% undecided, and 27% disagreed that social media present an opportunity for people to commit fraud and attracts hackers. This study will contribute to the body of knowledge in South Africa as there is a limited number of published studies on the impact of social media in financial institutions.

**Keywords:** Banking industry, business model, collaborations, effective communication, financially high-risk institutions.

**JEL Classification:**

### Introduction

In this century of information technology, social media have increased challenges and opportunities in commercial banks in South Africa. The increased access of the Internet and popularity of networking via virtual platforms of social media has become an integral part of the South African landscape (Gardner, 2011; Olorunnisola, 2013). A plethora of researchers (Blanchard, 2011; Hyde-Clarke, 2011; Nabyla, 2014; and Qualman, 2010) advanced that the evolution of social media revolves around the concept of strategy. This study intends to respond to the above perspectives presented by different authors through positing the deeper understanding of social media, and exploring the importance of social media in the financial institutions. The primary purpose of this study is to investigate the degree of impact made by social media in the commercial banks and contributions it embeds to teams' collaboration, and communication. The number of studies (Cran, 2015; Gilbert, 2016; Treverton, 2016) on the impact of social media have shown that social media have drastically affected team collaboration, communication and productivity in the commercial banks. According to Katona and Sarvary (2014), social media nowadays have become the prerequisite to create, disseminate, share and exchange information; it is the way in which people interact through ideas in virtual communities or organizations. There is a limited knowledge regarding the use of social media in the commercial banks, and social media adoption by banks and financial institutions is still at a nascent stage (Miranda, Chamorro, Rubio and Morgado, 2013). The primary objectives of this study include: to investigate the impact of social media in

commercial banks; explore contribution it has brought and ascertain the level of collaboration, and effective communication within banking industry.

The next section provides conceptual framework, theoretical background, and reviews literature on social media followed by research methodology, results, analysis and discussions and recommendations emanating from the research findings of this study. The study also presents limitations of the study and recommendations for future studies.

### 1. Conceptual framework

The term "social media" has various definitions based on its nature of application, but, for the purpose of this study, the term refers to commercial banks employees' perceptions towards utilization, communication and collaboration. Fuchs (2013) views social media as a medium to engage with the different forms of sociality on the Internet in the context of society. Faller and Schmit (2013) consider social media as a system of discovery, distribution, consumption and conversation surrounding the media, while a plethora of researchers (Brunty and Helenek, 2014; Dahl, 2014; and Gould, 2015) aver that "social media" are web-based tools for interaction that, in addition to conversation, allow users to share contents such as photos, videos, and links to resources. This study acknowledges the different perspectives advanced by above authors which contribute to describe social media. However, this study intends to establish interpretation of use of social media in financial institutions spectrum as there is a paucity of literature.

### 2. Theoretical background

This study intends to provide a theory-grounded reinterpretation of social media impact in South African banks since they are perceived to be reluctant institu-

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tions to easily adapt to this phenomenon. D'Ambra, Wilson and Akter (2013) posit that task technology fit (TTF) is an established theoretical framework in information systems research that enables the investigation of issues of fit of technology to tasks, as well as performance. According to Gebauer and Tang (2008), the theory of task technology fit maintains that a match between business tasks and information technology is important to explain and predict the success of information systems. Shang, Chen and Chen (2007) contend that the TTF model suggests that the impact of information technology characteristics on user evaluations will depend upon how important the characteristics are, which determined by users' task needs. This study is grounded on the above theory of TTF as it investigates and tests the utilization of relevant technologies in the financial institutions to improve their performance, which include several factors: communication, collaboration and utilization.

### 3. Literature review

**3.1. International perspective on social media.** At the international scope, the literature evaluated was based on the impact of social media, and key factors that concern team collaborations, communication, and productivity. Among aspects addressed these are the changes in people's communication, social media has rapidly become part of how people communicate...this is especially true as broadband internet access has become ubiquitous throughout the world (Scott and Jacka, 2011). Munar, Gyimóthy and Cai (2013) confirm that the widespread use of social media sites raises issues related to social influence in the global market. Hacioglu and Dincer (2013) contend that data improvements and Information Communication Technologies (ICT) developments, especially on the Internet phenomena, affected financial markets directly and inevitably. Gonzalez (2014) indicates that there are many benefits to companies using digital and online technology, but there are many risks as well. This study investigates whether collaborative teams in financial institutions depend on the use of social media to collaborate on tasks and enhance suitable communication. Turban, Strauss and Lai (2015) posit that collaboration helps with solving business problems and uncovering new opportunities, especially with the help of social media tools. According to Steven (2012), social media can be seen as a new way of combining technologies, community users' activities and different users' communities and groups. This study is in alignment with the above advanced perspectives from different authors and further investigates whether social media are becoming unavoidable to many organizations to engage in the online activities since many are often competing within a global market.

### 3.2. South African perspectives on social media.

South Africa still remains a compatible country, but less so regarding the emergence of social media in organizational perspective, increasing the quality and quantity of skilled labor can, therefore, generate additional 1.5 million jobs relative to the baseline and raise potential growth to 7 per cent (South African Reserve Bank, 2013). Cross (2013) indicates that social media take traditional forms of media to a whole new level. Therefore, innovation in communication and collaboration is through adaption to social media. Some studies have found that social media use in South Africa continues to grow, with Facebook leading the trend, growing from 6.8 million users in 2013 to 9.4 million users in 2014 (Mushwana and Bezuidenhout, 2014; Adeyinka, 2014). Hugo (2015) points out that only the high level of public in South Africa are using the Facebook to engage in discussions of a political nature, and using the platforms to connect to each other and share political information in new ways. Camillo (2015) suggests that, when measuring the influence of social media the business performance, there are two main aspects to consider: impacts and return on investment (ROI). Social media in its essence have positive and negative implications on change. Numerous authors (Razmerita, Philips-Wren and Jain, 2015; Just, 2015) indicate major changes brought by Web 2.0, that social media technologies are seeping into organizations, thus, transforming business processes and raising performance. This study investigates whether there are problems in the utilization of social media since South Africans do not use social media for business purposes, but to share political information. This above-mentioned perspective indicates that use of social media in South Africa is for political information-sharing purposes, while the current study explored whether South African organizations adopt it for the same purpose or not. The study investigated the notion that social media, in financial institutions, can add innovation and improve performance, because, through collaboration, teams will emerge. The above perspectives are linked to this study, because it investigates whether these two financial institutions should adapt to social media and administer changes which social media bring so that they could stay on par with innovation and competition.

### 4. Research methodology

This present study has adopted quantitative research method which was the main approach guiding the study. According to Creswell (2013), quantitative methods involve the process of collecting, analyzing, interpreting, and writing the results of a study. Therefore, a quantitative research design was relevant for this study as it explored experiences, operations, perspectives, perceptions and feelings of bank employees

on the use of social media among their team collaborations. This was an empirical study which was conducted by means of a survey questionnaire which provided for the collection of large amounts of data. Structured questionnaires were distributed respectively to two commercial banks' (ABSA and Standard Bank) employees located in the Eastern Cape Province. The structured questionnaires were distributed to the population size of 194 employees with 102 returned and completed successfully, thereby generating a response rate of 53%. The non-respondents in this study were identified to be 92 unreturned questionnaires from two commercial banks which have been considered not to be bias, but signified inequality of gender composition in these respective commercial banks. The study targeted both males and females in the banks, and survey respondents were not selected in the first instance to be a single gender, it has shown high response rate to be female which disregard their male counterpart presence.

**4.1. Participants.** This study targeted the population size of 194 employees in two major (ABSA and Standard Bank) South African banks whereby a sample size of 102 employees were sampled. The selection criteria of research subjects were for them to be bank employees and be 18 years and older. The sampled target population included middle to lower management levels, which were performing the core roles and duties of business administration. Such core roles could consist of managing and controlling information circulation and retrieving fundamental elements for the banks' life or existence. This study targeted tellers, sales consultants, credit analysts, credit managers and branch Managers with the purpose of exploring the empirical influence and impact of social media.

**4.2. Instrument.** To allow participation of bank employees from different branches, a structured questionnaire was self-developed and self-administered to ensure response of participants. A Likert scale type of questionnaire was relevant for this study to examine different dimensions and relationships between employees' variables. Numerous authors (Azzara, 2010; Boone and Boone, 2012; Phakiti, 2014; and Remenyi, 2012) contributed to the insight and development of this questionnaire. The research instrument consisted of 50 items, with the levels of measurement at nominal or ordinal levels. The questionnaire was divided into 6 sections which measured various themes which are: biographical data, understanding of social media, social media optimism, social media influence on

human interactions, challenges of social media in banks, and perceptions in business etiquette.

**5. Data analysis**

The data collected from the responses were analyzed with SPSS version 23.0.

**5.1. Reliability: Cronbach's coefficient Alpha.** According to Golafshani (2003), the extent to which results are consistent over time and an accurate representation of the total population under study is referred to as reliability; if the results of a study can be reproduced under a similar methodology, then, the research instrument is considered to be reliable. The overall reliability score (0.929) of this study exceeds the recommended Cronbach's Alpha value of 0.700. This indicates a high degree of acceptable, consistent scoring for the various sections of the research.

**5.2. Ethical considerations.** Research ethics involves requirements on daily work, the protection of dignity of subjects and the publication of the information in research (Fouka & Mantzorou, 2011). A permission letter was obtained from these two major financial banks in the Eastern Cape Province in order to conduct this study. The study further ensured full confidentiality of information given and protected the identities of bank employees who participated. Furthermore, it ensured that human rights are not violated and commercial banks' principles, rules and regulations were adhered at all costs.

**6. Research findings**

**6.1. Pearson Chi-square test.** The study findings revealed that almost all sub-dimensions of the study have a Pearson Chi-square test of 0.000 which determines a significant relationship between variables of the study; this implies that most respondents agreed with the statements of the study.

**6.2. Hypothesis testing.** The study findings revealed a positive and significant relationship between social networking as a great contributor to business productivity and that social media, as a medium, enhance communication effectiveness at 0.448<sup>\*\*</sup>. This indicates that employees who are actively involved in social media are likely to contribute positively on productivity of these organizations. Furthermore, finding showed that the more employees communicate through social media, the more likely they are to increase productivity, thereby increasing their performance.

Table 1. Gender distribution by age

			Gender		Total
			Male	Female	
Age (years)	18 to 34	Count	21	46	67

Table 1 (cont.). Gender distribution by age

			Gender		Total
			Male	Female	
	18 to 34	% within age (years)	31.3%	68.7%	100.0%
		% within gender	80.8%	60.5%	65.7%
		% of total	20.6%	45.1%	65.7%
	35 to 54	Count	5	29	34
		% within age (years)	14.7%	85.3%	100.0%
		% within gender	19.2%	38.2%	33.3%
		% of total	4.9%	28.4%	33.3%
	65 and above	Count	0	1	1
		% within age (years)	0.0%	100.0%	100.0%
		% within gender	0.0%	1.3%	1.0%
		% of total	0.0%	1.0%	1.0%
	Total	Count	26	76	102%
% within age (years)		25.5%	74.5%	100.0%	
% within gender		100.0%	100.0%	100.0%	
% of total		25.5%	74.5%	100.0%	

Table 1 demonstrates a correlation gender distribution which was illustrated by different significant representations, whereby females have shown a high percentage of representation than their male counterparts.

Table 2. Understanding of social media

Understanding of social media	Disagree	Undecided	Agree
Social media as a medium that enhances communication effectiveness	10.8%	10.8%	78.4%
Social media as a medium of collaborating teams to practical collaboration	7.8%	15.7%	76.5%
Banks only staying competitive through the utilization of social media	16.7%	18.6%	64.7%
Driving banks' business processes to change	9.8%	24.5%	65.7%
Attracting potential hackers	14.7%	17.6%	67.6%
As an opportunity for people to commit fraud	26.5%	13.7%	59.8%
Social media as a learning content to understand cultural differences	11.8%	22.5%	65.7%
Social networking as a great contributor to business productivity	7.8%	13.7%	78.4%
Social media as a way of improving performance	19.6%	14.7%	65.7%
Social media as a way to promote innovation	7.8%	14.7%	77.5%

Table 2 illustrates the understanding of social media on bank employees, which has relatively shown positive understanding in its contribution, but respondents also revealed that social media attract potential hackers and provide an opportunity for people to commit fraud.

Table 3. Social media optimism

Social media optimism	Disagree	Undecided	Agree
Has become a suitable communication strategy in all business operations	15.7%	22.5%	61.8%
Has an excellent contribution towards team work discussions	17.6%	20.6%	61.8%
Is an essential tool for professional business meetings	23.5%	27.5%	49.0%

Is a prerequisite for developing and building new ideas	23.5%	21.6%	54.9%
Ascertain good productivity in any individual assigned tasks	15.7%	28.4%	55.9%
Ensures the total measure of my competence	12.7%	32.4%	54.9%
Has improved my literacy skills	21.6%	19.6%	58.8%
Has trained many employees to handle diversity	18.6%	20.6%	60.8%
Continues to help employees to stay updated at all times in all spheres	2.9%	24.5%	72.5%

Table 3 shows the level of employee's optimism towards social media in financial institutions. Respondents confirmed the usefulness of social media in their production, but lack trust for professional considerations.

Table 4. Social media influence on human interactions

Social media influence on human interactions	Disagree	Undecided	Agree
Changed how work used to flow	23.5%	22.5%	53.9%
Started the openness of emotions on employees	23.5%	27.5%	49.0%
Brought a great cohesiveness among employees	20.6%	22.5%	56.9%
Created online communities that can be easily managed	14.7%	24.5%	60.8%
Improved supervision from management towards employees	27.5%	21.6%	51.0%
Totally transformed channels of communication	9.8%	24.5%	65.7%

Table 4 reflects the influence of social media which has been considered unavoidable by respondents, this highlights the way in which social media have influence on employees interaction in their facets. Table 4 also revealed that social media obscure the emotions of employees at the banks.

Table 5. Challenges of social media in banks

Challenges of social media in banks	Disagree	Undecided	Agree
Employees become free in expressing	25.5%	13.7%	60.8%

how they feel through social media platforms			
Employees use social media platform to gossip	30.4%	21.6%	48.0%
Communication is greatly distorted by social media	23.5%	28.4%	48.0%
Employees have rights to reveal information as the practice of freedom of speech	32.4%	15.7%	52.0%
Employees share videos to spread false statements in the event of conflicts	45.1%	22.5%	32.4%
Employees use social media platforms as an opportunity to establish relationships	25.5%	16.7%	57.8%

Table 5 reveals challenges imposed by social media as a contemporary evolving strategy of doing business. The respondents felt that it is complex to deal with advent of social media in financial institutions.

Table 6. Perceptions in business etiquette

Challenges of social media in banks	Disagree	Undecided	Agree
It continues to change how decisions are made	14.7%	28.4%	56.9%
It makes employees less innovative	33.3%	21.6%	45.1%
It often delays productivity	35.3%	21.6%	43.1%
It allows much leisure during production	20.6%	32.4%	47.1%
It unveils confidentiality of information	22.5%	24.5%	52.9%
It impetus more costs for its use	25.5%	26.5%	48.0%
It brings difficulties to manage these internet-based services	33.3%	30.4%	36.3%
It slightly redefines organizational capacity to transfer knowledge	20.6%	29.4%	50.0%
Its implications intends to dent the image of the banking industry	34.3%	17.6%	48.0%
It continues to compromise the reputation of the industry	30.4%	21.6%	48.0%

Table 6 shows how employees have exercised freedom in their environment, expressing how they feel through social media platforms with high representation of (60.8%), wherein, social media has also necessitated establishment of new relationships among employees.

## Discussions

The primary objective of this study was to investigate the impact of social media in the two commercial banks in the Eastern Cape Province, Mthatha (O.R. Tambo District). Respondents, in the gender distribution by age, showed disproportionate representation of gender inequality. This is a result shown by female youth (aged 18 to 34) outnumbering male counterparts by a large percentage. This finding is in disagreement with Metcalf and Rolfe (2009) who claim that banks employ a relatively high percentage of people in the 25 to 39 age range and fewer in older age ranges. The high percentage of respondents who revealed that social media is a medium that enhances communication effectiveness is in disagreement with Blanchard (2011) who claims that social media are now bringing about its own evolution, not only in communication. Major

findings show that many respondents perceive social media to be attracting potential hackers to banks. It is in agreement with Youngblood (2015) that many of the successful fraud schemes generated through sending of unsolicited e-mails are currently delivered to the targeted individual on social media websites. This finding is also supported by Headworth (2015) that social media with web-based platforms expose banks to numerous forms of computer crimes and business risks.

Participants have shown the highest response that social media continue to help employees to stay updated at all times in all spheres. This finding was in agreement with Jalonen (2014) who states that social media increases the connectivity of people within and across organizational boundaries. Within the dimension of social media's influence in human interaction, a high percentage of agreement was shown by respondents that social media have changed workflow. This finding is congruent to Langer's (2014) concern that social media becomes increasingly prominent in organizations and have affected the way in which we communicate internally and externally. In the context whereby social media have totally transformed channels of communication, many employees indicated large percentage of agreement.

Among the challenges of social media in banks revealed were that social media continue to change how decisions are made, and a high response percentage was shown in this regard to confirm how employees agreed with this statement. This finding was confirmed by Kadam and Ayarekar (2014, p. 3) that social media have changed the delivery, structure and availability of information. Negative response showed that social media allow much leisure with regard to production. This finding is in disagreement with Karampelas (2012) who notes that employees in a group keep on encouraging others to be committed in assigned tasks. Regarding perceptions of business etiquette, many employees highly agreed that bank employees become free in expressing how they feel through social media platforms. This finding is in agreement with Kazienko and Chawla (2015) as they claim that today's constant Internet connectivity and mobile devices have drastically changed employee's lifestyles from face-to-face to online conversations. Participants did not totally agree with the perceptions that employees use social media platform to gossip. This sub-dimension is in disagreement with Hugo (2015) who found that only the high level individuals in South Africa are using Facebook to engage in discussions of a political nature and use platforms to connect to each other and share political information.

## Conclusion

It may be concluded in this article that the perceptions of bank employees concerning social media impact on their operations were negative. The primary objective of this study endeavored to establish the critical role of social media, the degree of their impact on employees of commercial banks, and examining perceptions of social media value on employees and embedded risks. This study observed that ubiquity of social media has created negative perceptions on its impact in financial institutions. The research findings shown in this study which are counter-productive were that social media attract potential hackers and bidding fraud. This has become a problem which will result in excessive loss of financial credibility of two commercial banks (ABSA and Standard Bank). This article reveals that there is no absolute optimism because employees lack trust in social media as they continue to exacerbate unprofessionalism and violate the core values and principles of organizations in these commercial banks. The study also observed that there are many challenges of social media in the commercial banks and which are continuing to enact the negative impact in all the banks' facets. This has immensely disregarded the value of and use of social media by employees in the banks. The study, in addition, showed that social media are denting the image of commercial banks. It observed that social media affect banks communication strategies negatively. This study also concludes that social media platforms create onerous implications of distorting communication in the organizations, because employees utilize them to gossip and spread false statements in the event of conflicts.

## Recommendations

The present paper suggests that commercial banks (ABSA and Standard Bank) should review their recruitment strategies and strive to balance the levels of employment on the basis of gender. Failure to

review their recruitment and selection strategies will result in the banking industry being regarded as a discriminatory industry on the basis of gender. In order to address these potential threats presented in the understanding of social media, it is vital for branch managers to stay vigilant in advancing policies and core values which should intensely regulate the use of social media. The formulation and development of these policies must be made known to all employees at all levels of management. Management should train and develop their employees on the ethical use of social media among employees', thus, increasing professionalism and productivity. The goals and aims of the training and development should be within the context of building trust among teams in these commercial banks, because building trust will necessitate cohesiveness and productivity through these technologies, that is, social media. Maintaining online communities is crucial to be kept, especially in this digital evolving business world, but the structures of communication have to be well administered through involvement of all stakeholders and people responsible for different levels in management, i.e., branch levels. In order to address these challenges of social media which are faced by commercial banks, it is imperative that commercial banks should realize their strength and capability of managing Internet-based services and, then, capitalize on those strengths.

**Limitations of the study and advice for future studies.** A single approach of research method created limitations since the quantitative methodology was the only method employed throughout the study. For future studies, researchers should adopt a mixed methods research approach on the use of social media in commercial banks. Therefore, future studies could address the impact of social media at a national level and even beyond that, at an international level.

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