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**Fuzzy effectiveness of self-service innovative systems in the lean retail banking sector**

**Abstract**

Technology gives retail banks an advantage over their competitors and enables them to exploit new opportunities. Current branch-based distribution models are no longer sustainable in most banks, and are unable to meet rapidly-evolving customer needs and provide easy access to simplified banking services. This study examines the impact of the streamlining of internal lean practices on service operations processes at South African banks. Structured questionnaires were distributed to 15 selected South African bank branches in Gauteng province (with an average of 10 participants per branch) that have instituted new lean oriented systems. A sampling technique was used to collect data from employees in order to determine their perceptions of internal processes and the effects of technological self-service systems aimed at improving customer service. The study used factor analysis on 150 responses to develop the internal processes models. The findings illustrate that self-service systems at retail bank branches do not simplify banking services. They reveal the relationship between self-service systems, such as cash accepting ATMs, and the speed of service provision, the simplicity of using banking services, and consistency in customer service. The findings suggest that, in order to streamline processes, retail banks need to invest in educating customers on technological self-service systems. Furthermore, customers should initiate the value chain process; banks need to adopt a pull-approach by offering catalogues of services for customers to choose from.

**Keywords:** lean, lean principles, adoption theory, value stream.

**JEL Classification:** G21, L86.

**Introduction**

South Africa’s retail banks need to embrace a customer-centric approach in order to preserve and augment their customer base. Accentus, cited by Tyrer, observes that, “local banks offer the same financial products so customer service becomes the key differentiator which could give them the competitive advantage” (Tyrer, 2010, p. 5). Although systems like lean production were originally designed for the manufacturing sector, this study considers lean practices and the degree of retail banking agility. An empirical study by Narasimhan (2008, pp. 440-457) found that lean and agile strategies address competitive priorities such as cost, superiority, service and litness, although each emphasizes different essentials and distinctions can therefore be made among these strategies (Gunakaran, 2008, pp. 549-564). Christopher and Towill (2008) consider cost to be the focus of lean practices while speed is regarded as the focus of agility, and litness and receptiveness are associated with changes in service (Zhang and Sharifi, 2007). This study seeks to ascertain the effects of internal lean service processes and the influence of self-service systems on streamlining retail banking value-adding operations. A recent survey by Lebides (2012) revealed that South African banks do not measure and promote behavior that is associated with good customer service; rather, they measure employee performance in terms of sales and revenue. Consequently, rather than focusing on customers’ needs, employees push products in order to deliver on performance targets. The study further revealed that customers are frustrated by errors that occur when they visit their banks; this is caused by the fact that bank employees service products rather than the customer (Lebides, 2012). Demand failure is defined by Seddon and Caulkin (2007, pp. 9-24) as “demand caused by a failure to do something or do something right for the customer; it is the consequence of poor service design”. Seth (2005) adds that service quality directly impacts customers and their experiences of an organization’s offering; high impact is manifested in improved business performance, customer satisfaction, customer loyalty and profitability. In the process of transformation, financial institutions have significantly changed their business paradigm from servicing the product to servicing the customer.

1. **Problem statement and objectives**

Financial institutions have evolved significantly in streamlining value-added services in response to customer demand for better service, lower transaction costs and convenient delivery channels, such as mobile and internet banking (Ernest and Young, 2012). Both business and customer needs have evolved over time, despite the customer-centric approach that is necessary to ascertain and grow the customer base. Improved efficiencies accompanied by quality service are the main challenge facing financial institutions (PriceWaterhouseCoopers, 2012). This study’s principal objective is to investigate the impact of the streamlining of internal lean practices on service operations processes.

The objectives of the study are:

- To establish the contribution of the value-added processes introduced by lean retail banking prac-
tices business operations in the shift from servicing the product to servicing the customer.

- To explore the correlation between the value-stream system and serving customers and the influence of self-service systems on delivery channels.
- To evaluate the extent to which internal lean-principle service operation processes influence continuous retail banking performance outcomes in terms of increased business performance velocity.

2. Theoretical framework

The adoption of electronic systems in a supply chain has significant effects on business process change, collaborative relationships among trading partners and even business transformation (Gimenez and Lourencio, 2008; Wu and Chang, 2012). It entails the use of information technology (IT) to adopt new methods, processes, or production systems. The purpose of IT adoption is to sustain or improve firm performance and to respond to changes in the external environment while utilizing broad features such as information exchange capabilities, and business process integration, to conduct value chain activities (Liu, Ke, We, Gu and Chen, 2010; Ke, Liu, Wei, Gu and Chen, 2009). In relation to lean theory Figueiredo (2005) points out that many innovations do not achieve the expected results and fail to satisfy the requirements of potential adopters. This study therefore assesses potential value-adding processes in relation to lean retail banking practices and the influence of the introduction of innovative electronic banking initiatives. According to Rogers (2003), adoption refers to a person or organization’s decision to use an innovation while diffusion is the process by which an innovation is communicated over time through certain channels among members of a social system. Oliveira, Dutra, Correia, Neto and Guerra (2012, p. 786) recommend “the method of interaction between research and behavior theory that involves assessing the individual preferences of users and their behavior according to choice models, examining the combination of attributes and their variability, and becoming possible to envision various situations and closely examine the interests of users to these situations”.

3. Literature review

3.1. Lean systems in supply chain management.

In today’s competitive world, organizations are aware that they must deliver quality services that satisfy rising customer expectations. This requires that they develop strategies to improve their understanding of customer needs. Increased customer expectations have pressurised banks to review their operations and become more efficient in order to remain competitive (Cronje, 2007, p. 11). This study elucidates the lean principles that banks can embrace in order to improve customer service and efficiencies. Lean is “the systematic removal of waste by all members of the organization from all areas of the value stream” where the value stream is used to document and analyze the phases in each process (Womack and Jones, 1996, p. 6). Organizations that have embraced lean management have experienced improved performance in the form of cost reductions, improved service, and faster turn-around times (Emiliani, 2006, p. 167). Lean is expected to remove all waste in the value stream chain in order to improve an organization’s operations (Abdulmalek and Rajgopal, 2007, pp. 223-236). Unlike analysts who view lean and agile practices as mutually exclusive (Richard, 1996; Goldsby, 2006; Vazquez-Bustelo and Avella, 2007; Krishnamurthy and Yauch, 2007; Naylor, 1990) this study does not adopt a one-dimensional perspective where lean and agile are considered conjoint competitive priorities. Like production companies, financial services companies have operational processes and products, all of which exhibit some degree of inefficiency. Lean manufacturing has been shown to improve efficiency (Worley and Doolen, 2006, pp. 228-245). However, Achanga (2005, pp. 460-471) adopts a cautious attitude to the use of lean manufacturing as an approach to quality management, as its success or failure depends on the organization’s ability to implement all the identified initiatives. According to lean principles, resource utilization with no customer value outcome must be changed or eliminated (Womack and Jones, 2003).

3.2. Principles of lean management. Womack, Jones and Roos (1996) present five principles of lean production that an organization should focus on in adopting waste elimination and service quality improvement systems in order to pass on value to customers. These principles are guidelines for lean practices that ensure that processes are aligned with customers’ value creation. In terms of the first principle of value, Womack and Jones (2003, p. 310) state that, “value can only be defined by the ultimate customer. It’s only meaningful when expressed in terms of a specific product (a good or service, and often both at once), which meets the customer’s needs at a specific price at a specific time”. Customer value entails mutual commitment and information sharing that, enable the organization to satisfy customers’ needs. The authors define value as the “capability provided to the customer at the right time at an appropriate price, as defined in each case by the customer” (Womack and Jones, 2003, p. 311). For an organization to deliver value, only services that the customer has asked for should be delivered (Hicks, 2007, pp. 233-249). The second principle of value stream focuses on the
3.3. Lean service. There are no apparent findings that lean implementation improves performance at an organizational level unless the improvements are measured at the local level and subjective perspectives are included to support improvements (Burgess, 2012, p. 288). The application of lean methods to services enables managers to take action that improves their performance in terms of operations knowledge (Seddon and O’Donovan, 2010, pp. 34-37). These authors stress that organizations are trained to address predictable and unpredictable value demand as efficiently as possible guided by the application of lean principles (Brophy, 2013) to the internal service system. This study focuses on the extent to which internal lean principle service operations processes influence and manage systems and values in continuous retail banking performance outcomes in terms of increased business performance velocity. Arfmann and Barbe (2014, pp. 18-24) note that lean production practice “minimizes waste along entire value streams and creates more value for customers”, although lean service practice from the usefulness and usability point of view improves internal service systems and manages value streamline service operations. Lean service creates process speed in service provision by reducing cycle time and improving value adding efficiency by reducing costs. George (2003) describes value adding as work that adds value in the customer’s eyes. Fitzsimmons, Fitzsimmons and Bordoloi (2014, p. 196) assert that the lean service process is “a continuous rapid flow of value-adding activities to satisfy customer needs through achieving perfect process with the right purpose as value, the best method as process and the highest sense of accomplishment as people”. Lean’s core competency is to remove all the links to non-value added activities in the enterprise with less manpower and less equipment. In the short-term and at a smaller site, this performance-based lean system creates value in meeting customer expectations of the product and service (Zhou, He and Gao, 2006). It emphasizes waste reduction and an improved service value chain and therefore cost reduction (Russell and Taylor, 2009). It underpins growth by improving productivity and quality, reducing lead times and freeing up significant amounts of resources (ITC, 2004).

3.4. Lean in the services sector. Levitt (1976, pp. 63-74) advocated the adoption of lean in the service sector in his article on the “production line approach to service”. Kanakana (2013, pp. 2-3) supported this position. Over the years, more service organizations have become interested in implementing lean principles. Bowen and Youngdahl’s (1998, pp. 207-225) study on lean adoption by two companies, McDonalds and Taco Bell found that lean can be successfully implemented in the food sector. McDonalds and Taco Bell were amongst the first service organizations to successfully adopt lean principles (Kanakana, 2013, pp. 5-6). Zarei, Fakhrzad and Paghaleh (2011, pp. 25-33) found that lean manufacturing principles could improve processes while reducing costs and improving customer value (Noorwali, 2013, p. 2). The majority of studies on lean principles in the service sector have focused on the health industry; most support the implementation of lean techniques in this sector (Vlachos and Bogdanovic, 2013, p. 4).

Cookson and Colin (2011) applied value stream mapping in the Emergency Department of a UK hospital and identified more than 300 instances with...
potential for waste elimination and process improvements. Bortolotti, Romano, and Nicoletti (2010, pp. 579-583) developed a methodology to streamline and automate processes with the aim of eliminating waste in service organizations. The authors found that the automation of a non-streamlined process could generate problems that slow down the flow and increase errors (Vlachos and Bogdanovic, 2013, p. 6). Therefore, lean principles are not applicable to all industries; while the service sector can implement lean principles that are useful and usable, not all organizations in this sector can adopt lean methodology. Psychogios (2012, p. 125) observed that Taco Bell was a perfect example of the introduction of lean in the service sector (Noorwali, 2013). This scholarly endorsement offers some level of confidence that lean methodology is applicable to a banking environment. While lean manufacturing principles are not applicable to all service organizations, studies by Vlachos and Bogdanovic (2011), Cookson (2011), Goldenbaum-Gaber and Rizenbanch (2013), Babczenko and Garvey (2012), Ahlstrom (2004), Noorwali (2013), Bowen and Youngdahl (1998), Kundu and Monohar (2012), and Bonneau (2011) outline the core lean principles which can be applied to any sector, although service organizations can adopt lean principle tools such as the 5Ss of housekeeping (Sort; Straighten; Shine; Standardized; and Sustain) methodology and 7 wastes of Lean (Piercy and Rich, 2009, p. 54). It is clear that lean principles can be implemented at South African banks in order to improve internal processes and enhance customer service.

3.5. Lean in the financial sector. Traditionally, the financial sector has been known as being service-centred, with services pushed towards the branches rather than requested or pulled by customers. In recent times, banks have adopted a more customer-centric approach where internal processes that customers value, such as credit applications, are managed in an end-to-end manner. Ahlstrom (2004), Goldenbaum-Gaber and Rizenbanch (2013), and Babczenko and Garvey (2012) investigated how successful the financial sector has been in adopting and implementing lean principles. These studies revealed that banks can reap substantial benefits from implementing lean principles, including improved efficiency and cost reductions (Kanakana, 2013, p. 6). Maleyeff (2006, p. 674) observes that lean can be adopted to improve internal banking processes. Wilson (2010) notes that the fundamental goal of lean is to pragmatically identify waste at each level of the process and eliminate it completely. One of the easiest ways to locate waste is to observe material or product flow from the process perspective. Lean methodology aims to streamline processes and workflow to enhance an organization’s productivity while satisfying the customer and eliminating waste (Chibaira and Hattingh, 2013, p. 6). Lean focuses on eliminating waste and reducing lead times between customer demand and service delivery in order to satisfy this demand; this is achieved by focusing on and addressing non-value-adding activities (Goldenbaum-Gaber and Rizenbanch, 2013, pp. 3-7). Applying lean properly in a service context often means regarding customer satisfaction as “the product” and investigating ways to improve service (Kanakana, 2013, pp. 6-9). A recent survey by Lebides (2012, p. 18) revealed that South African banks do not measure and promote behavior that is associated with good customer service; rather, they measure employee performance in terms of sales and revenue. Consequently, rather than focusing on customers’ needs, employees push products in order to deliver on performance targets. The study further revealed that customers are frustrated by errors that occur when they visit their banks. These often emanate from bank employees servicing products instead of servicing the customer (Lebides, 2012, pp. 18-28). These concerns reflect the reality of what is happening at branches; hence this study investigates the adoption of lean principles in banking processes.

3.6. South African banks. PriceWaterhouseCoopers (2012) states, that, there is great potential for financial institutions to embrace lean principles to improve day-to-day efficiency. It is very important for lean-based institutions to focus on the eradication of non-value-added activities. This will lead to visible and sustainable improvement as customers are becoming less loyal to their banks (Ernst & Young, 2012). A study conducted by PriceWaterhouseCoopers (2012) found that all the mainstream South African banks had a formal strategy in place to switch customers to electronic banking. However, this has not been very successful and has not had a significant effect on profitability. Customers are taking greater control of their banking relationships. They are prepared to switch banks and are demanding improvements and new products. Banks need to rapidly adapt to these changes and reevaluate the ways they interact with customers. They need to embrace change by adopting new approaches that give customers greater flexibility. Giving more power to customers may feel uncomfortable, but it assures the future of the bank (Ernst & Young, 2012).

The mainstream South African retail banks have recognised that ever-changing demands in the banking industry call for simple and innovative ways of doing business (Dayan, AL-Tamimi and Elhadji, 2008, pp. 320-330). Not surprisingly, customers want better value and improved services. Customer advocacy and word of mouth are rapidly gaining power. Research shows that customers are more likely to seek financial advice from friends and family (Ernest & Young, 2012). Van Belle (2012) observes that the majority of customers are dissatisfied with their banks. Asked why they stay with their banks, responses in-
cluded that it is “too much effort to change”. Other reasons were good service (17%), loyalty (10%) and competitive rates (5%). This emphasizes perceptions that banks tend to invest more in attracting new customers than in retaining their current customers. It signals that banks need to change their approaches and adopt lean principles to attract and retain customers in order to remain competitive.

4. Research methodology

4.1. Target population and sample size. This study employed a non-probability sampling method defined by Schiffman (2010) as one where the population under study is predetermined in a non-random fashion on the basis of the researcher’s judgment or a decision to select a given number of respondents from a particular group. The study used convenience sampling in order to obtain quick information, and judgemental sampling to enable the researcher to gain access to individuals with the requisite information. The estimated sample size for 15 bank branches was approximately 225 potential participants, although the actual sample size was an average of 10 participants per branch multiplied by 15 branches = 150 returned questionnaires. The response rate was 66.67% (=150/225x100). Given the high levels of confidentiality in the banking sector, it was expected that gaining access would be a problem. Furthermore, the response rate was expected to be low due to busy schedules.

4.2. Data collection instrument. A closed-ended questionnaire designed by the researcher was used to collect data. The questions were designed to establish how strongly a subject agreed or disagreed with statements using dichotomous questions, a five-point Likert scale, and ranking. In evaluating self-service systems, respondents were asked to rank their experience of the effectiveness of self-service systems at branches. The ranking scale varied from “1 = least important”, to “2 = not important”, “3 = important”, and “4 = most important”. In the Likert scale, the rating scale varied from “1 = strongly disagree” to “5 = strongly agree”. Overall, 68 questionnaires were distributed and collected electronically, while 82 were distributed and collected manually, with a total of 150 responses. Of the 150 respondents, 67 are male and 83 are female.

4.3. Descriptive statistics. According to Burns and Grove (1993, p. 29), a descriptive study provides an accurate portrayal of characteristics, such as the beliefs, knowledge, abilities, and opinions of particular individuals. This design was used to achieve the objectives of this study, namely, to determine the views of retail bank branch staff members on internal lean-principled service operations. Reliability tests were conducted on all variables.

<table>
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<tr>
<th>Table 1. Descriptive statistics</th>
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<tr>
<td>N</td>
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<tr>
<td>Customer education</td>
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<tr>
<td>Catalogued product</td>
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<td>Value adding process</td>
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<td>Customer experience</td>
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<td>Customer specifications</td>
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<td>Lean &amp; agile</td>
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<td>Cycle time</td>
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<td>Internal process</td>
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<td>Value stream system</td>
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<td>Valid N (listwise)</td>
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<tr>
<td>Cronbach’s Alpha = 0.860</td>
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Table 1 provides the descriptive statistics for the sample of respondents for nine dimensions of a value stream. The results show that the average scores for the variables are high, with customer education in particular scoring a large mean of 4.23. As a variable of a value stream, catalogued products or services, and value adding processes also scored a high mean of 4.18 and 4.09, respectively. The total number of respondents who answered questions on the specified variables was 150. The mean for customer education, which measures the central tendency and is the arithmetic mean across the observations is 4.23 and is slightly greater than the mode 4. This indicates that on average more than 50% of the sample believes that educating a customer about self-service systems reduce queues at the branches.

4.4. Factor analysis. The score of 0.819 presented by Kaiser-Meyer-Olkin (KMO) depicts the strength of the other variables in explaining the correlation between potential factors; thus the KMO values are good. Pallant (2010) states that, the data set is considered suitable if it is above .60. In this factor analysis, the KMO (.819) and Bartlett’s test of sphericity (564.68) scores are suitable at degree of freedom (36).
Table 2. Factor analysis

| Kaiser-Meyer-Olkin measure of sampling adequacy | .819 |
| Bartlett’s test of sphericity | Approx. Df | 564.684 |
| Sig | 36 |

Rotated component matrix

<table>
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<tr>
<th>1</th>
<th>2</th>
<th>% of variance</th>
<th>Mean</th>
<th>Std. deviation</th>
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<tbody>
<tr>
<td>Internal process</td>
<td>.802</td>
<td>47.830</td>
<td>3.85</td>
<td>.921</td>
</tr>
<tr>
<td>Value stream system</td>
<td>.792</td>
<td>3.76</td>
<td>1.127</td>
<td></td>
</tr>
<tr>
<td>Lean &amp; agile</td>
<td>.755</td>
<td>3.97</td>
<td>1.017</td>
<td></td>
</tr>
<tr>
<td>Value adding process</td>
<td>.746</td>
<td>4.08</td>
<td>.900</td>
<td></td>
</tr>
<tr>
<td>Cycle time</td>
<td>.580*</td>
<td>3.93</td>
<td>.893</td>
<td></td>
</tr>
</tbody>
</table>

Factor 1: Internal lean process engineering

Factor 2: Customer centricity

According to Costello and Osborne (2005, p. 3), the intention of rotation is to simplify and explain the data structure. This study employed factor loadings as the basis for imputing a label to the different factors wherein the researcher examined the most highly or heavily loaded indicators in each column and assigned a factor label. The factor interpretations and labels are confined to the assumption of face valid imputation of factor label (face validity) that is rooted in theory.

Factor 1 demonstrates the greatest variable loadings of the five extracted factors. Therefore, the loadings of five out of nine variables have the highest variance figure of 47.830%. This critical factor encompasses internal processes, the value stream process, lean and agile and value adding processes. These five items encourage an organization to reduce waste by instituting process engineering based on value stream, meaning that lean processes will enhance flexibility through agile. Thus they are appropriately interpreted as process engineering. When processes are engineered and optimized to deliver customer demands, it will be easier for bank staff to respond quickly to customers. The bank needs to simplify its internal processes in order to allow flexibility in terms of staff functions and duties. To put it simply, optimized processes will lead to consistency, simplicity, and reliability in customer service provision. The overall performance of the business will be directly affected by process engineering; hence the bank needs to review and optimize its processes.

Fig. 2. Process engineering

Source: designed by the researcher from empirical findings.
The loadings of five out of nine variables have the highest variance figure of 15.843%. These factors are related to customer-centric, and are hence interpreted as centricity. If customers are educated about banking services and products, they can specify the services that add value to them; hence customer experience will be improved. In simple terms, centricity focuses on prioritizing customers in every decision that the bank makes. This will give customers a sense of belonging and involvement. To afford customers some flexibility, customer education initiatives must be undertaken in order to enable them to choose specific services from the products or services catalogue, hence customer experience will be improved. The study revealed that in discussing lean at a bank, there are two important sets of elements, namely, process engineering and centricity. Process engineering encompasses cycle time, the value stream process, lean and agile and value adding processes. The second element, centricity, includes customer experience, customer centrality, customer specifications, customer education and catalogued products.

5. Managerial implications

The study revealed that the application of lean tools to a bank can generate positive outcomes. However, a bank does not produce and keep commodities; therefore, it is important to pay attention to capacity management and high volumes of service demand (Johnston and Clark, 2008). This implies that managers need to actively manage resources by ensuring that all customer demands are accommodated and timeously delivered. Banks have already applied some of the principles of “pull” such as self-service banking systems. However, the lean philosophy also considers customer education in order to support efficient and reliable value creation. This study revealed that this is a gap at banks, as customers are not educated about self-service banking systems and are hence reluctant to use these services. There are instances where value stream mapping has exposed areas of improvement (Arbos, 2002) and lean practices have facilitated waste elimination in financial organizations (Goldenbaum-Gaber and Rizenbanch, 2013; Babchenko and Garvey, 2012; Ahlstrom, 2014). Future research should seek to apply these proven models and practices (Harre, 2008). Inseparability is one of the key factors of service. This factor focuses on simultaneous delivery and consumption of services (Donnelly, 1976; Grönroos, 1978; Zeithaml, 1981; Carmen and Langeard, 1980; and Onkvisit and Shaw, 1991). This study’s results revealed that self-service systems do not facilitate simplicity and efficient delivery to customers. This implies that turnaround times in service provision are still an issue. Future research should seek to determine whether self-service systems can be designed in such a way that they benefit both the bank and its customers.

Concluding remarks

The findings of the study indicate that positive benefits are associated with the application of lean methods to service organizations. There is strong conviction that a principle derived from TPS works in a service context (Bowen and Younghal, 1998). The study revealed that self-service systems do not afford customers simple, reliable and fast banking service. Thus the principal objective of this study to determine the impact of streamlining of internal lean practices on service operations processes at different branches was achieved.
banks invest heavily in technological systems to enable customers to access services conveniently, the study revealed that customers are reluctant to use these systems due to lack of understanding. On the other hand, cycle times are relatively longer at bank branches; hence customers find themselves queuing for a long time.

The findings of the literature review indicate that internal banking processes are only explained by two elements, internal process engineering and customer centricity. Value stream systems and customer experience were found to have a positive correlation, which indicates that customers derive utility from such systems. Customer education appears to be an important variable. Efficient internal processes are considered to be the most important factor in ensuring that fast, efficient and consistent service is provided to customers. This study analyzed the practicality of improving internal processes at retail banks and the influence of waste reduction on processes and the bank’s performance. The findings demonstrate bank staff’s initial understanding of retail banking internal processes.

References


