

Factors to Measure the Performance of Private Business Schools in South Africa

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Abstract: This article identifies the latent variables embedded within the model to measure the performance of private business schools. In the quantitative research design, 247 questionnaires, using a five-point Likert scale, were analysed after completion by private business school supervisors and managers. The data has high reliability with a Cronbach alpha coefficient of 0.974 and excellent sample adequacy with a KMO value of 0.926. The analysis identified ten latent variables (or factors), identified using exploratory factor analysis explaining a cumulative variance of 70.56%. These are Regulatory compliance, Strategic communication, Educational technology stack, Strategic finance, Organisational development, Customer orientation, Sales, Pricing, Socio-political influence and Market focus. The study also succeeded to simplify measuring performance by eliminating 26 questions with low factor loadings (<0.40) or those that are cross-loading highly onto more than one factor from the questionnaire while retaining a satisfactory level of reliability. The results are valuable to private business school managers and to the employees wanting to measure and improve the business performance of a private business school. Researchers and academia could also benefit from the contribution of the study to either build on business performance of private business schools or, alternatively, in adopting the methodology employed in this study for another application setting.

Keywords: *Performance, private higher education institutions, management, success factors, business, PHEI*

1. Introduction

Globalisation and the rapid growth of the knowledge economy have created an increased demand internationally for higher education (HE). This is even more so in a developing country such as South Africa where there is a population growth of 1.45% (2017) and 1.2% (2018) (WorldoMeter, 2018). The inability of public education to cope with the historical increase in demand for education on all levels has resulted in an increase in private education, and also private higher education institutions (PHEIs) to fill the educational gap (Stander & Herman, 2017:206). The important role that higher education plays in economic growth is perceived as a panacea to the poverty and inequality faced by many people throughout the world. Hanushek (2016:538) specifically mentions the positive influences that higher education could have on South African economic growth and also individual economic empowerment. Here, increased knowledge capital, communication skills (Geldenhuys, 2018), exponential personal development, innovations, and inventions are key to facilitate economic growth. South Africa needs professionals across all sectors; managers, doctors, teachers and engineers are all vital to future economic success, and education stands central to deliver these professionals. This is a matter also facing many other countries. Furthermore, the rapid transformation of economies and countries due to the fourth industrial revolution has further impacted on governments to meet the need for a skilled population that can take their countries forward.

However, McGrath (2015) warns that particular skill sets are required for particular countries. South Africa, for example, is ideally suited for astrological skills development due to its ideal geographical location while skills for the motor-industry are less attractive because lucrative but geographically remote export markets (such as Australia), have a competitive disadvantage in transportation costs. Identifying and delivering the required country-specific skills are paramount and reside not only with educational policies and the state, but also with private higher education to identify and enter into entrepreneurial activities to harvest the market demand in South Africa. The higher education market demand is further fuelled by an age demographic profile of South Africa where the youth bulge in South Africa where the population of 57.4 million people has a median age of 26.3 years (WorldoMeter, 2018) and more than 50% of the population is younger than 25

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years old (South Africa Population, 2018). This creates a high-demand situation to equip and skill the upcoming new workforce. However, this is a serious challenge for all countries in Africa where high educational demand, public budget constraints, the exodus or brain drain of the skilled and young workforce, and limited suppliers are a reality.

In this regard, private education is a viable option for many countries to adopt to meet the need for the youth to be skilled and be of benefit to Africa. Although the highly regulated educational environment of South African complies with the CHE, SAQA and DHET requirements to be recognised and able to operate in the country (Stander & Herman, 2017:207), the South African higher education environment, including private business schools, strives to provide unsubsidised education to its students. Furthermore, despite the fact that PHEIs may not legally use the term 'private universities', they have to adhere to similar regulations, accreditations and oversights than the public universities. In this regard, business schools in South Africa face many managerial and entrepreneurial challenges to be successful and to meet the growing demand for higher education and to educate and form the skilled workforce for the next generation of South Africans.

Problem Statement: There are many barriers to entry and regulatory challenges in the South African PHE market. Stringent requirements from the government via particularly the CHE, the DHET and SAQA enforce quality standards in education; however, in doing so, also strain PHEIs in South Africa to comply. Some researchers (Stander & Herman, 2017:207-208) believe that quality control processes border on over-regulation. However, although they continuously present challenges that managers of PHEIs need to address and overcome to remain compliant and competitive in the educational market, the role that PHEIs has played in the education of South Africans is acknowledged by the government. In addition, the National Development Plan for 2030 (SA Government, 2012) acknowledges the role that PHEIs can play in addressing the need for higher education in South Africa. In this regard, the South African government should aim to create an enabling regulatory environment for education that invites PHEIs into the education system while also remaining the guardian of quality education in South Africa (SA Government, 2012:268). The National Development Plan aims to achieve a 25% graduation rate as well as aiming for an enrolment target of 1.62 million by 2030 in comparison to the 950 000 students who graduated in 2010; this signifies an increase of 70% graduates (SA Government, 2012:277). Public universities simply do not have the capacity to accomplish this goal, and as a result. PHEIs are part of the solution to equip and skill the people of South Africa and embrace the fourth industrial revolution. However, for PHEs to offer lucrative business opportunities in a developing economy such as South Africa, PHEIs compete with other industries and business opportunities for investors seeking to earn a satisfactory income from their investments.

In practice, this means that PHEIs must be competitive, profitable and, in general, able to perform well as a business. Measuring business performance is, however, complex and an intricate topic. Here, Van Looy and Shafagatova (2016:1797) concur that measuring the business performance of any organisation is a critical success factor. Typical factors to be considered range from finance, customers, internal business processes technology and also the issue of learning and development. In addition, Maulina (2018:214) highlights that businesses are also affected by external factors, which include politics, government policy, law, economy and social issues, as well as the cultural, demographic and community environment. Furthermore, other internal business factors such as human resources, marketing, profitability, production and innovation also play a role in business performance. Although various models or methods have been designed and applied to measure business performance, few delved into determining the performance of education businesses. Furthermore, given the history of the development of tertiary education in South Africa, most educational business performance models focus on public universities where subsidies and state income are the primary sources of funding. This study, therefore, aims to focus on identifying the factors that are important to measure the business performance of a PHEI.

Research Objectives: The primary objective of this article is to identify the latent variables (called factors) embedded within a theoretical model that measures the business performance of private business schools. This, in essence, postulates the challenge that PHEIs face, namely that inadequate research has been done on the unique challenges and performance indicators that PHEIs face if they want to measure their business performance in the South African business environment.

This Primary Objective is achieved by the Following Secondary Objectives:

- Scientifically simplify the questionnaire
- Identify the underlying factor structures
- Measure the reliability of the data and the factors
- Determine the relationships (if any) between the factors

2. Literature Review

The literature study consists of three key elements. Firstly, it provides theoretical support to underpin the research methodology and the statistical techniques used; secondly, to substantiate their suitability for this study; and thirdly, to provide theoretical support for the factors identified from the results. These factors could be confirmatory of existing literature in other application settings, or they could be new factors that were identified by the analysis. In addressing the primary objective of this study, to identify latent variables embedded in the data, this study employs factor analysis. Two gatekeeper tests are required to successfully employ factor analysis as a multivariate statistical technique; the measure of sample adequacy and Sphericity, which refer to the inter-relationships between the variables.

Factor Analysis: Factor analysis originated in the early 1900s, Factor analysis aims to find the simplest way to interpret the data obtained (Harman, 1976). Initially applied in human ability studies by Charles Spearman in the development of the Two-factor theory, factor analysis sparked a number of research projects based on the principles of factor analysis (Harman, 1976:159). Although initially applied to human behaviour and psychology (Kerlinger, 1973:659), the advantages of factor analysis were quick to migrate towards other disciplines such as the social and behavioural sciences, medicine, management, marketing science and even towards economics and geography as a suitable multivariate data analysis tool (Yong & Pearce, 2013:79). The main function of factor analysis is to simplify the dataset in fewer, more manageable summarised variable groups. These groups are called factors, which allow for easier comprehension, interpretation and discussion (Yong & Pearce, 2013:84). As a result, factor analysis simplifies measures by producing meaningful patterns in a group of variables (Child, 2006), and thereby regrouping the variables into a reduced set of factors (Yong & Pearce, 2013; Field, 2013; Pallant, 2013). Factor analysis can also be used to determine the validity of factors and its measuring criteria; in practice, this means that the criteria measuring a specific antecedent or construct can be confirmed as true measures of the specific construct (Patel, 2015). Many studies have successfully applied factor analysis to do so and to weed out unworthy measuring criteria from measuring instruments (for example Bisschoff & Moolla, 2014; Imandin, Bisschoff & Botha, 2016; Fields & Bisschoff, 2013a; Shaikh, Bisschoff & Botha, 2017). The two main factor analysis techniques are confirmatory factor analysis (CFA) and exploratory factor analysis (EFA); these techniques are discussed below.

Confirmatory Factor Analysis (CFA): In essence, the difference between the two approaches is that CFA is used to confirm previously identified factors in a new application setting. Exploratory factor analysis sets out to identify new factors; this means that no specific model or variable structure exists to fit the data. This means that confirmatory factor analysis is used later in the research process to test specific existing hypotheses or theories regarding the structure of the set of variables (Pallant, 2013:179). It is more complex and sophisticated and is used when the researcher anticipates or hypothesises that a specific application setting could be explained by a specific variable structure; confirmatory factor analysis then determines whether this application setting indeed fits the hypothesised model and its different underlying dimensions (Patel, 2015:2). The objective of CFA is therefore to identify the measurement model that best describes a specific set of data (Eaton & Willoughby, 2018:104), and thereby to check whether the model proposed by the researcher fits, or appropriately describes, the correlational groupings of items in a specific dataset by developing a model, estimating the model's parameters, as well as calculating the model-fit statistics and model refinement (Eaton & Willoughby, 2018:108). As a result, exploratory factor analysis is used mainly to better understand the variables and their grouping into fewer factors without losing their original meaning.

Exploratory Factor Analysis (EFA): Exploratory factor analysis is a multivariate statistical method to investigate whether a number of variables of interest are linearly related to a smaller number of unobservable factors (Tryfos, 1997). In doing so, it attempts to uncover the complex patterns in the dataset

and simplify it into a smaller, more understandable set of variables (which is normally unobserved) (Child, 2006). Pallant (2013:179), further states that exploratory factor analysis is used in the initial phases of research to obtain evidence about the interrelationships among a set of variables. Resultantly, the exploratory nature of the technique is usually the first step to reduce the dataset into fewer, more understandable variables (Yong & Pearce, 2013:79), especially in cases where existing models do not exist or established variable sets have not yet been identified (Samuels, 2016). In practice, this means that the researcher does not know how many factors there are (if any) and exploratory factor analysis can then be used to determine the factors, their variance explained and also how many factors actually exist that better explain the original data (Patel, 2015). Two forms of exploratory factor analysis exist, namely factor analysis (FA) and principal component analysis (PCA). Despite linguistic differences caused by the labelling of the factors (generated by the factor analysis), and components (produced from the principal component analysis) (Samuels, 2016), factor analysis is preferable because it attempts to provide a better fit with the variable groupings (factors) to the data.

It does so by rotating the factor axes, and thereby succeeds to produce a better explanation of each factor as measured in their respective variance explained. The factors are 'rotated' so that it is easier to interpret while they do not lose their original meaning. The next stage in the process is to determine or select the method of rotation. The one rotational technique is an orthogonal (uncorrelated) rotation where the angle between the axes is kept constant. This makes for easier interpretation and reporting, but the researcher is required to make more assumptions to label the factors (Pallant 2013:183). Orthogonal rotation is used to explore new datasets and variable structures and has the advantage that it attempts to maximise the variance explained by the data in fewer factors (Field, 2013:796). The more popular orthogonal rotational techniques are Varimax, quart IMAX and equamax. The alternative rotational method is the oblique rotation, which is more difficult to interpret report and describe. This method is usually used when the factors are correlated or established (Pallant, 2013:183). Oblique rotation methods include direct oblimin and promax rotations (Field, 2013:796). In exploratory studies, such as this one, the most common rotation used is the orthogonal Varimax rotation because this rotation disperses the maximum factor loadings so that most of the variance is explained by data (Field, 2013:796). Furthermore, Varimax rotation reduces the variables that contain high loadings across the factors and thereby reduces the probability for strong dual-loading variables (Pallant, 2013:184; Young & Pearce, 2013:84).

This study selected the orthogonal varimax rotation, mainly because of its ability to successfully extract factors in exploratory research settings (Shaikh et al., 2017; Hamid, 2015; Naidoo, 2011; Fields & Bisschoff, 2013b). The cut-off factor loadings to develop a conceptual model in this study retained only those criteria with factor loadings of 0.40 and higher; this decision criterion was implemented based on the success of similar research in various application settings (Shaikh et al., 2017; Hamid, 2015; Bisschoff & Moolla, 2014; Fields & Bisschoff, 2014; Naidoo, 2011;). The study aimed for a 60% cumulative variance explained as this signifies a good fit to the data (Field, 2013:672). Noteworthy, however, is that 50% is considered a satisfactory variance explained in exploratory research (Samuels 2016:2) and was set as the lower limit for the variance explained. The number of factors to extract was based on the eigenvalues to be equal to or higher than 1 as the initial guideline (Field, 2013:670), but the refined factor extraction methodology developed by Mishra (2008 in Patil et al., 2008:162) in their parallel research engine, was used to ascertain that the correct number of factors were extracted. In cases where the number of factors to be extracted differed, the parallel research engine was used as the definitive measure. Exploratory factor analysis requires the key gatekeeper statistics or tests to be meaningful in interpretation and data analysis. These tests and its decision criteria are discussed below.

Kaiser-Meyer-Olkin (KMO) Measure of Sample Adequacy: The Kaiser-Meyer-Olkin (KMO) measures whether the sample is adequate; this means that there have been sufficient data points used to provide an adequate sample. According to Patel (2015:3), interpretation of the KMO values is that values between 0.5 and 0.7 are mediocre, values between 0.7 and 0.8 are good, values between 0.8 and 0.9 are very good and values above 0.9 are regarded as superb. Furthermore, Osborne, Costello and Kellow (2014:17) indicate that the KMO statistic measures whether the data collected by the sample is adequate for analysis and that its results fluctuate between 0 and 1. If a value is near to 1, this signifies condensed correlation patterns and the factor analysis should produce distinct and reliable factors. If there are values below 0.5, the researcher has

to either collect more data or reconsider the variables to be included in the analysis (Field, 2013:1976). In this study, exploratory factor analysis is pursued and the KMO as a measure of sampling adequacy should be equal to or higher than 0.70 to be considered as acceptable (Hassan, 2016:889; Mbuya & Schachtebeck, 2016:232).

Bartlett's Test of Sphericity: Sphericity is a condition where the variances of the differences between all combinations of related groups are equal (Laerd, 2018). Bartlett's test of sphericity is also a secondary measure to test sample adequacy (Field, 2013:1980), because if the sample is inadequate, the sphericity should also portray insignificant values that are higher than the maximum significance level of 0.05. This test specifically examines whether the variance-covariance matrix is proportional to the identity matrix, and therefore effectively tests whether the group variances are similar in nature. If so, the off-diagonal elements would be approximately zero, which means that the dependent variables are uncorrelated and therefore indicate that factor analysis is a suitable multivariate technique to apply to the specific dataset (Field, 2013:2467). Bartlett's test of sphericity will usually be significant at a value of less than .005 (Field, 2013:2005; Pallant, 2013:190). In practice, this means that sphericity guides the researcher to determining how well the extracted factors explain the research setting.

Reliability: The Cronbach alpha is a statistical test performed to indicate the overall reliability as a measure of the internal consistency of the data collected (Mbuya & Schachtebeck, 2016:232); coefficients between 0 and 1 are displayed as reliability indicators (Hassan, 2016:891). High reliability implies that similar results (in this case factors) should present themselves in repetitive studies of a similar nature, while low reliability means that other factors should surface in such a repetitive study performed under the same conditions (Bester, 2018:60; Field, 2013:2031). It is noteworthy that a low alpha coefficient does not disqualify a factor from the current study; even factors with lower reliability remain important to the present study. Reliability, therefore, yields a verdict on the repetitiveness of factors in similar studies and, consequently, the predictability of these factors in confirmatory factor analysis studies (Field, 2013:666). Cronbach alpha coefficients are regarded to be satisfactory once they equal or exceed 0.70 (Hassan, 2016:891; Field, 2013:2037), although seminal research by Cortina (1993:98) indicated that coefficients of 0.57 and higher are also acceptable in exploratory studies. Coefficients higher than 0.8 are considered to be good, while those exceeding 0.9 are considered to be excellent (Sekaran & Bougie, 2003:327).

3. Research Methodology

Research Design: The study makes use of a literature review and a mixed qualitative and quantitative research design to collect the data. The antecedents for business success under scrutiny were initially identified from the theoretical study. The study included all sectors and all businesses that measure their success. Financial and sales measures as business success antecedents were abundant, but literature scrutiny soon identified other antecedents as valued antecedents towards measuring the business success of PHEIs. Typically, antecedents such as employee turnover, satisfaction, returning customers and marketing metrics are but a few of the identified antecedents. The literature study employed similar studies and models that measure business performance (and/or success) and identified a wide array of possible antecedents to measure business performance (about all types of businesses). This extensive list was impractical and many of these antecedents had little or no relevance to the business performance of PHEIs specifically. These antecedents were critically evaluated and obvious irrelevant antecedents to the application setting were discarded. Measuring criteria were then developed from the literature for each of the retained antecedents.

These remaining antecedents and their respective measuring criteria were then subjected to qualitative scrutiny to evaluate, retain and to validate the business performance antecedents. The literature-based list of drafted antecedents and their measuring criteria served as the point of departure in the qualitative study. Semi-structured interviews were conducted with eight experienced executive managers in PHEI. The list of antecedents, as well as the measuring criteria relevant to each antecedent, was discussed with each of them to determine the importance and relevance of the antecedents and their criteria. Interviewees were also invited to add antecedents or criteria they deemed crucial in managing a PHEI. After the interviews, the initial list was amended and expanded to incorporate the interviewees' suggestions. The next step was to further refine and reduce the number of antecedents and identify only those key antecedents relevant to PHEIs. Here, a group session with the same eight interviewees was conducted.

The Interviewee Profiles are:

Interviewee 1: Is a 60-year-old director of marketing with ten years' experience in PHEI and holds a B degree in marketing.

Interviewee 2: Is a 47-year-old senior manager with a PhD and 15 years' experience in PHEI.

Interviewee 3: Is a 73-year-old director with over 40 years of public and private higher education experience and holds a professorship.

Interviewee 4: Is a 65-year-old professor with over 30 years' experience in government, public education and private higher education.

Interviewee 5: Is a 42-year-old director with a professional accounting qualification and ten years' experience in PHEI.

Interviewee 6: Is a 40-year-old senior manager with 15 years' experience in PHEI with a professorship.

Interviewee 7: Is a 50-year-old director with 20 years' experience in private higher education and holds a professorship.

Interviewee 8: Is a 40-year-old senior manager with 15 years' experience in PHEI with a master's qualification.

The meta-technique (as adapted and applied by Coetsee, 2002:142-147) was employed to capture their views and identify the list of key antecedents relevant to PHEIs' performance (see Table 2). All the interviews were recorded and transcribed to ensure no information loss occurred. After the interviews, the initial list was amended and expanded to incorporate suggestions and also consider omitting criteria the interviewees did not deem important in managing a private higher institution.

Data Collection: The questionnaire contained two sections: Section A: Demographics, and Section B: Measuring criteria. Section A consists of five questions to compile the demographic profile of the respondents. Section B consists of the final 18 antecedents dealing with business performance constructs, each with its own measuring criteria. The criteria were formulated in statement format to which the respondents had to indicate their level of agreement or disagreement on a five-point Likert scale. In total, Section B consisted of 68 measuring criteria (see Table 2). The population consisted of all full-time employees at two private business schools. These schools have a wide geographic service area, which covers South- and also Southern Africa. The total population was targeted; no sample was drawn. The employees were requested to complete the questionnaires and it was clearly indicated that participation is voluntary and also anonymous. The researcher forwarded the questionnaires to trained office managers in the outlying offices and to the academic managers at the head office in Durban to assist with the distribution and collection of the questionnaire. A total of 250 questionnaires were distributed, of which 247 were completed and returned, signifying an effective response rate of 98.8%. The data was captured by the Statistical Consultation Services of the North-West University and analysed with the IBM Statistical Package for Social Services Version 25 (IBM SPSS, 2018).

Table 2: Constructs Supported by the Literature

Antecedent	Criteria	Interviewee-selected criteria	Literature support	Literature-supported criteria
1. Sales	1. Cost of the programmes	1, 2, 3, 4, 5, 6, 7, 8	Belch and Belch (2015) Collins Dictionary (2017)	1, 2
	2. Sales target achievement	1, 2, 3, 4, 5, 6, 7, 8	CSO Insights (2016) Lei (2012)	3, 4, 5
	3. Number of short courses sold	1, 5, 6, 7, 8	Kargic and Poturak (2014)	1, 2 1, 2, 3, 4, 5
	4. Number of students enrolled	1, 2, 3, 4, 5, 6, 7, 8	Thian et al. (2016) Bezuidenhout and De	1, 2, 4, 5
	5. Number of returning students enrolled (<i>Criterion 6: Omitted</i>)	1, 2, 3, 4, 5, 6, 7, 8	Jager (2014)	1, 2 1, 2, 3
2. Growth	7. Increase in market	2, 4, 5, 6	Lamb et al. (2016)	7, 8, 9

	share			
	8. Increase in student numbers	1, 2, 3, 8	De Meyer et al. (2017) Hanover Research (2017)	7, 9, 10
	9. Increase in new programmes	2, 3, 4, 6, 7	Thian et al. (2016) PWC (2017)	11, 12, 13
	10. New regions	1, 2, 3, 4, 5, 6, 7, 8		7, 8, 9, 10, 12
	11. Saturation of SADC and SA markets	2, 5, 6, 8	Akplu (2016)	10, 11, 12
	12. Entered into international partnerships	3, 4, 7	Levy (2015a)	7,10,11
	13. Leverage alumni network	1, 3, 6, 7		7,8,9,10,11,12
3. Profitability	14. Expense control	2, 5, 6, 8	Longenecker et al. (2017)	16
	15. Increase in revenue	1, 2, 3, 4, 5, 6, 7, 8	Kotler and Keller (2016)	
	16. Sustainable	2, 3, 5, 6, 8	Bateman and Snell (2015) Sazonov et al. (2015) Jashim (2016)	14, 15, 16 14, 15 14, 15, 16 15
4. Technology	17. Website	1, 2, 3, 4, 5, 6, 7, 8	Alsemgeest et al. (2017) Longenecker et al. (2017)	17, 18, 19, 20, 21
	18. Social media	1, 2, 3, 4, 5, 6, 7, 8	University of Oxford (2017)	17, 18, 20
	19. Management information systems	2, 4, 5, 6, 7, 8	Hanover Research (2017)	19, 20
	20. On-line learning	1, 2, 3, 4, 5, 6, 7, 8	Navneet (2016)	20, 21 19, 20
	21. CRM software	2, 5, 6, 8		20, 21 19, 20
5. Customer	22. Customer value	2, 4, 5, 6, 7	Alsemgeest et al. (2017) Goetsch and Davis (2016)	24
	23. Continual improvement	1, 2, 3, 6, 7	Levy (2015b) Khalid (2014)	22, 23, 24
	24. Products offered	1, 4, 5, 6, 7, 8		24, 25
	25. The target market for distance education	1, 2, 3, 4, 5, 6, 7, 8		22, 23, 24, 25
6. Innovation	26. Teaching and learning	2, 4, 5, 6, 7	Alsemgeest et al. (2017) Longenecker et al. (2017)	26
	27. Academic programmes	3, 4, 6, 7	Hanover Research (2017) Navneet (2016)	28, 29
	28. Embrace innovation	1, 2, 3, 4, 5, 6, 7, 8		26, 27, 28, 29
	29. Online platforms	2, 3, 4, 5, 6, 7, 8		26, 27, 28, 29
7. Service	30. Level of service	1, 2, 3, 4, 5, 6, 7, 8	Bateman and Snell (2015)	30, 31, 32, 33
	31. Meeting needs	2, 3, 6, 7, 8	Altbach (2015)	31, 32, 33
	32. Meeting wants	1, 3, 4, 5, 6, 7, 8	Navneet (2016)	30, 31, 32, 33
	33. Considers the customer	1, 2, 3, 4, 5, 6, 7, 8		
8. Leadership	34. Goal directed	1, 2, 3, 4, 5, 6, 7, 8	Goetsch and Davis (2016) Longenecker et al. (2017)	34,35,36
	35. Innovative	2, 4, 5, 6, 7, 8	Alsemgeest et al. (2017) Al-Husseini and Elbeltagi (2016)	34,35,36 34,35,36,37
	36. Passionate	1, 2, 3, 4, 5, 6, 7, 8	Yirdaw (2016)	

	37. Embraces organisational change	2, 5, 6, 7, 8		34,35,36,37 34
9. Return on investment	38. Investment by founder	1, 2, 3, 4, 5, 6, 7, 8	Longenecker et al. (2017) Carol et al. (2017)	38, 39, 40, 41
	39. Profit focus	1, 2, 3, 4, 5, 6, 7, 8	Yan and Levy (2015)	39, 40
	40. Monitoring expenses and revenue	1, 2, 3, 4, 5, 6, 7, 8	Thian et al. (2016)	38, 39, 41
	41. Target driven	1, 2, 3, 4, 5, 6, 7, 8		38, 39, 41
10. Stakeholders	42. Government institutions' influence	1, 2, 3, 4, 5, 6, 7, 8	Botha et al. (2016)	42, 43, 45, 46
	43. General public	1, 2, 3, 4, 5, 6, 7, 8	Longenecker et al. (2017) Levy (2015a)	42, 43
	44. Quality assurance bodies	2, 3, 4, 5, 6, 7, 8		43, 46
	45. Professional bodies	2, 3, 6, 7	Van Schalkwyk and Steenkamp (2016)	42, 43, 44, 45, 46
	46. Shareholders control and influence	1, 2, 3, 4, 5, 6, 7, 8		
11. Society	47. Political changes	1, 2, 3, 4, 5, 6, 7, 8	Botha et al. (2016)	47, 48
	48. Community perceptions	1, 2, 3, 4, 5, 6, 7, 8	Alsemgeest et al. (2017) Akplu (2016)	48, 49
	49. Student population	3, 4, 6, 7		47, 48, 49, 50
	50. The public has accepted private providers	1, 2, 3, 4, 5, 6, 7, 8	Strydom et al. (2017)	51, 53, 54
12. Quality	51. Meet expectations of students	1, 2, 4, 5, 7, 8	Schiffman and Kanuk (2014)	51, 52, 53, 54
	52. Meet requirements of CHE	1, 2, 3, 4, 5, 6, 7, 8	Stander (2017)	51, 52, 53, 54
	53. Fit for purpose	2, 4, 6, 7	CHE (2001; 2016)	51, 52, 53, 54
	54. Compliance with regulations	1, 2, 3, 4, 5, 6, 7, 8	Van Schalkwyk and Steenkamp (2016)	51, 53
13. Marketing	55. Branding	1, 2, 5, 6, 8	Thian et al. (2016)	51, 53, 54
	56. Website	1, 2, 3, 4, 5, 6, 7, 8	Longenecker et al. (2017)	55, 59
	57. Social media	1, 2, 3, 5, 8	Lamb et al. (2016)	
	58. Software management	2, 5, 6, 8		55, 56, 57, 59
	59. Physical infrastructure	1, 2, 3, 4, 5, 6, 7, 8	Hanover Research (2017)	55, 56, 57, 58
14. Communication	60. Personalised communication	2, 4, 6, 7	Goetsch and Davis (2016) Kotler and Keller (2016)	59,61, 62
	61. Updated communication	1, 3, 4, 5	Abdallah et al. (2015) Makhitha (2017)	60, 61, 63, 64
	62. Timeous communication	1, 2, 3, 4, 5, 6, 7, 8	Navneet (2016)	60, 61, 62
	63. Student feedback	3, 4, 6, 7		60, 61, 62
	64. Tutor feedback	4, 6, 7		60, 61, 62, 63, 64
15. Legality	65. CHE compliance	1, 2, 3, 4, 5, 6, 7, 8	Navneet (2016)	67, 68
	66. DHET compliance	1, 2, 3, 4, 5, 6, 7, 8	Botha et al. (2016)	67, 68
	67. Financial and statutory compliance	1, 2, 3, 4, 5, 6, 7, 8	Jashim (2016)	67, 68
	68. Regulatory bodies' adherence	1, 2, 3, 4, 5, 6, 7, 8	CHE (2001; 2016)	65, 66, 67, 68

Ethical Clearance: This is a low-risk category study. It was submitted and ethically cleared by the Ethics Committee of the Faculty of Economic and Management Sciences at the North-West University. After the committee approved the study and classified it as a low-risk study, a study-specific ethics number (EMS14/11/12-01/10) was issued. Criteria with factors loadings of 0.40 and higher are retained provided they do not show strong dual-loading properties (second-factor loading exceeds 0.30) (Pallant, 2010:192). The results also provide a theoretical basis for future researchers and academia of business performance in education or in related research.

4. Results

Reduction of the Measuring Criteria: Exploratory factor analysis offers the advantage to simplify the dataset; this results in an easier understanding of the results. Simplification, according to Gaskin (2014), not only improves the validity of the analysis, but also enables better application and operationalisation of factor models in practice (Shaikh et al., 2017). In this case, varimax rotation is particularly suitable because it attempts to load criteria strongly onto specific factors, thereby reducing criteria that load onto more than one factor. This makes for easier factor interpretation (Field, 2013:1966). A varimax rotation also maximises the variance explained; this is important in exploratory studies because it offers the researcher a better understanding of the latent variables and their importance (Field, 2013:642).

Furthermore, based on the success of numerous exploratory studies to simplify and purify measuring instruments from dual-loading or low-loading criteria by successfully using exploratory factor analysis (Naidoo, 2011; Fields & Bisschoff, 2013a; 2013b; Bisschoff & Moolla, 2014; Hamid, 2015; Shaikh et al., 2017), the statistical decision criteria that are used are to accept factors if the KMO is equal to or higher than 0.70, Bartlett's sphericity is smaller or equal to 0.05, and the cumulative variance explained exceeds 60%. Factors' reliability should equal or exceed Cronbach's alpha coefficient of 0.70 (Field, 2013:675). The results show that five rounds were required to extract a satisfactory component matrix. Factors were retained as per the Kaiser criterion (where the eigenvalue exceeds or is equal to 1) (Kaiser, 1958:187; Pallant, 2010:184) and also where the eigenvalue exceeds the parallel analysis random matrix (Pallant, 2010:184) (as generated by the parallel analysis engine) (Patil et al., 2007). The results appear in Table 3. Eliminated criteria numbers correspond with Table 2.

Table 3: Purification of the Measuring Criteria

Round	Var. EXPL. (%)	KMO	BART-LETT	No. of factors	Alpha	Criteria eliminated
1	71.57	.920	.000	15	.982	None
2	72.60	.926	.000	12	.979	7.1, 5.6, 6.2, 13.3, 2.6, 3.2, 12.1, 6.4, 11.5, 2.1, 5.4
3	71.64	.927	.000	11	.977	2.5, 2.2, 16.9, 13.2, 6.3, 16.1, 13.1
4	72.26	.925	.000	10	.975	5.2, 16.6, 10.1, 2.3, 5.3
5	70.56	.926	.000	10	.974	7.3, 11.4, 16.12

The cumulative variance explained (in Table 3) decreased marginally with 1.01% after eliminating 26 unsuitable criteria. Additionally, the original 15 factors were reduced to 10 clear factors; this is a significant simplification of the factor structure to measure the performance of a private business school. Furthermore, the other statistical requirements were easily met and remained excellent with marginal differences in the sample adequacy (KMO) and reliability (alpha coefficients). Sphericity (Bartlett tests) remained unchanged below the required 0.05 level. However, Shaikh et al. (2017) point out that the real value of purification resides with the reduction of the number of factors (from 15 to 10), thereby creating a much more measurable and manageable model to apply in practice. In this case, Hill and Hughes (2007:380) state that a marginal decline in total variance explained is "but a small price to pay for the additional validity gained by the reduction in the number of factors and measuring criteria".

Factor Analysis: The rotated component matrix showing the extracted ten factors and their factor loadings appears in Table 4. The variance explained and the reliability coefficient of each of the factors appears at the bottom of the table. The variance explained indicates that Factor 1 is the most important factor (18.2%) of the variance, followed by Factor 2 (11.4%), down to the least important Factor 10 (7.5%). The total variance explained (70.56%) shows a very good fit to the data exceeding the margin of 60% with ease (Costello & Osborne, 2005:8; Field, 2013:672). Regarding factor reliability, the first seven factors have excellent reliability coefficients that exceed 0.90, while the last three factors exceed the required margin for this study (0.70) with ease. This means that all the factors are reliable and can be operationalised in practice. In practice, this means that Strategic finance is the biggest predictor of compliance with rules and regulations, followed by Innovation and goal-directed activities, while Political and societal impact has the lowest predictable influence. Therefore, an improvement in Strategic finance will benefit and improve Compliance with rules and regulations more than any other predictors and should be dealt with first as this approach will yield.

Table 4: Rotated Component Matrix

Description	1	2	3	4	5	6	7	8	9	10
15.3 Adheres to DHET rules and regulations	.836									
15.1 Complies with CHE rules and regulations	.825									
15.4 Complies with SAQA rules and regulations	.815									
15.2 Complies with financial and legal requirements	.803									
10.4 Complies with CHE quality standards	.742									
12.3 Complies with CHE & DHET quality standards	.734									
10.2 Complies with Government regulation and policy	.692									
10.3 Follows professional body rules and regulations	.644									
12.4 Programmes are fit for purpose	.583									
10.5 Shareholders provide directional objectives	.484									
14.4 Is in constant contact with students		.813								
14.6 Communicates personally with the students		.799								
14.5 Communicates timeously with students		.786								
14.7 Social media used effectively as communication tool		.717								
14.3 Undertakes student surveys to understand students' experience		.704								
14.2 Students receive tutor or lecturer feedback		.644								
14.1 Updated communication to students is provided		.644								
7.4 Student orientation and focus are primary		.542								
7.2 Continuous improvement of processes		.484								
16.13 The costs of programmes are affordable		.452								

4.5 Students are registered via the CRM system	.785	
4.2 The LMS is effective	.780	
4.4 Uses the latest technology to communicate with students	.736	
4.3 Has an online teaching platform	.733	
4.1 MIS is effective	.704	
16.2 Human resources training and development programme exists	.487	
13.4 Uses software to track and evaluate marketing efforts	.475	
13.5 Has excellent infrastructure	.450	
9.2 Is profitable	.766	
3.4 Constantly reviewing strategies to be profitable	.696	
3.1 Revenue has increased year-on-year	.678	
9.1 Expenses and revenue controls are in place	.653	
9.3 Targets are aimed at achieving outcomes	.626	
3.3 Systems exist to control and monitor expenses	.626	
9.4 The founder provided the initial investment	.626	
8.4 The focus is on the mission and vision	.729	
8.1 Organisational change is embraced	.705	
8.3 Innovation is encouraged	.681	
8.2 Outcomes are achieved by being goal-directed	.634	
12.2 Quality student expectations are the focus	.532	
16.10 An efficient information technological (IT) system exists	.618	
16.11 Empowers the public on the importance of higher education	.607	
16.9 Staff are professional in their interaction with students and public	.586	
16.8 The organisation is accessible to students	.477	
16.7 Excellent infrastructure for higher education is in place	.429	
16.4 Promotional campaigns focus on students	.406	
1.4 The number of new students increased year-on-year	.705	
1.3 Short course offerings have increased	.694	
1.5 Students returning to study have increased year-on-year	.671	
1.2 Sales targets have been achieved	.547	
2.4 Market share in SADC has increased	.443	

1.1 Cost of the programmes											.835
16.3 The price of programmes is affordable											.687
5.1 Programmes offered are value for money											.672
11.3 Political changes affect operations in the various offices outside South Africa											.760
11.1 Perception by society is positive											.543
11.2 Society is impacted by the organisations it serves											.435
5.5 Programmes offered to target the customers or students' needs											.531
6.1 Innovative programmes are continually developed											.527
Variance	13.30	11.66	8.77	8.18	7.60	5.37	4.65	4.93	4.05	2.40	
Cum. variance	13.30	24.95	33.71	41.89	49.49	54.87	59.52	64.11	68.16	70.56	
Cronbach alpha	.952	.938	.902	.899	.923	.907	.780	.773	.785	.702	

Extraction Method: Principal component analysis; Rotation method: Varimax with Kaiser normalisation
Rotation converged in 9 iterations.

Discussion of Factors

Factor 1: Regulatory Compliance: The analysis identifies criteria dealing with government regulation, rules and regulations, therefore compliance, as the most important factor that a private business school should adhere to in their quest to perform well. All the criteria listed show that the myriad of rules and regulations required to register and operate as a private business school by different governing bodies are key issues to adhere to. Factor 1 is the most important factor and explains a variance of 13.30%.

Factor 2: Strategic Communication: The second most important factor deals with issues pertaining to strategic communication and the role it plays in supporting a desirable student/customer experience. Strategic communication is an important tool by an institution to explain and fulfil its mission (Hallahan et al., 2007:20), while strategic communication between customer and institution also plays an important role in business performance (Roberts, 2018). This high factor rating of 11.6% of the variance demonstrates the importance of strategic communication.

Factor 3: Educational Technology Stack: Factor 3 identifies criteria dealing with technology as the third most important factor. Technology has an impact on business operations and performance. Technology has the ability to improve the financial position, enables faster communication (Holyoak, 2017), it also allows for innovation that keeps employees more engaged as well as increases capacity of the business to do more and ultimately saves time and money (SBDC Oklahoma, 2017). With the fourth industrial revolution, the educational technology stack having the best of breed technologies is to be looked at more closely as this is the way of the future in PHE and education in general. The factor explains 8.77% of the variance.

Factor 4: Strategic Finance: Factor 4 deals with strategy and finance. Various studies indicate that strategy in organisations is critical for the current and long-term growth and sustainability, also in PHEIs (Thompson et al., 2018; Longenecker et al., 2017; Carol et al., 2017; Yan & Levy, 2015; Thian et al., 2016). In addition, these studies also highlight the importance of financial monitoring; here, both revenue and expenditure are critical factors for business success in organisations. Proper financial and strategic performance systems for regulatory compliance are essential because financial health enables PHEIs to retain their educational licences and comply with financial regulations. Strategic financial planning is therefore imperative to long-term survival and to adhere to regulatory requirements; noncompliance could have disastrous consequences for the business performance of a PHEI. The factor explains 8.18% of the variance.

Factor 5: Organisational Development: Factor 5 deals with the mission and vision and embracing innovation. Organisational development focuses on fulfilling the mission and vision as well as embracing changes that take place internally and externally of the organisation. Change is constant and to embrace the change is critical for the survival of any organisation (Carnall, 2018); this is especially true in relation to the changes in compliance required by the CHE and DHET. In the case of South Africa, the PHEI environment is constantly affected by the changes in regulations and compliance requirements in addition to the typical challenges experienced by other business environments (such as the economic factors of the country) (Wride, 2017). Therefore, PHEIs have to be strategic in the manner that they approach the achievement of their goals and outcomes. The factor explains 7.60% of the variance.

Factor 6: Customer Orientation: Factor 6 focuses on customer orientation. Customer orientation has a direct impact on the sales and delivery of the product or service of any organisation as well as an impact post-delivery of the service (Kasemsap, 2017:126). Customer orientation relates to service delivery, which includes areas of reliability, responsiveness and having empathy. This creates a view that the organisation is in contact with society in general and focuses on the needs of the customer (Orville, Walker & Mullins, 2014:253) Customer orientation and community involvement in PHE are critical for success in the higher education sector. Factor 6 explains 5.37% of the variance.

Factor 7: Sales: Factor 7 deals with increasing sales of programmes, both formal and short courses. Sales, as a result of marketing efforts, facilitate the flow of income into the PHEI. Resultantly, higher sales, either by geographic market expansion or market penetration, would increase income flows of PHEIs. Additionally, important to PHEIs are student retention and to lock students in for the full study time by ensuring that they complete their studies by moving from year to year in their programme. Ideally, continued or advanced training and education following a first qualification should also be actively marketed to the current student base. This factor ties in well with Factors 4 and 10, Strategic finance and Customer service, respectively. Factor 7 explains 4.65% of the variance.

Factor 8: Pricing: Factor 8 deals with the pricing of programmes being offered at an affordable price that provides value for money to students. The founding principles of being affordable and being accredited are adhered to in this factor. The pricing of service is critical to ensure that profits are achieved. In so doing, the right price has to be charged for the service delivered. Substantial growth in revenue and market share depends on the pricing model developed for the product or service (Nagle & Müller, 2017:2-4). The right price for the programmes offered in PHEI is important for the suitability and profitability of the institution. Factor 8 explains 4.93% of the variance.

Factor 9: Socio-Political Influence: Socio-political factors, which include society and the political or regulatory environment, are dealt with in this factor. Socio-political influence refers to both the impact and interaction of social elements and political elements on an organisation (Complexity Labs, 2018). PHEIs are affected by both the political system that is highly regulated and controlled as well as the social dimension due to the demand for higher education to meet the government objectives of increasing the entry into higher education. This business environment has an impact on the operations and their sustainability of PHEIs. Factor 9 is the second least important and explains 4.05% of the variance.

Factor 10: Market Focus: Factor 10 is the last factor and focuses on being responsive to market and student needs by offering programmes that they require. In this regard, Vendrell-Herrero et al. (2017:489) highlight that organisations need to be outward looking or market focused when delivering a product or service. This ultimately leads to having a competitive presence and catering to the needs of the market. This allows for innovation and experimentation with new ideas and products. Singh et al. (2018:220-221) indicate that organisations grow through the institutional context, resource allocation as well as the industry context. This highlights that an organisation needs to consider the industry or the market when deciding on the product or service to provide, which ultimately leads to growth and delivers a viable return on investment. This factor is required in order for the PHEI to develop new programme offerings that are relevant in the marketplace. Factor 10 explains 2.40% of the variance.

Factor Correlations and Multiple Regression Analysis: Pearson correlation coefficients were used to determine the inter-factor correlations. All the factors showed high inter-factor correlations ($p \leq 0.1$; $0.70 > r > 0.35$). Although correlations between factors ($p \leq 0.1$; $r \geq 0.30$) (Pallant, 2010:185) are expected, cases where high correlations exist require further investigation. Various authors (Basilevsky, 1981; Carvalho, 2008; Field, 2013; Arayesh, 2015) suggest that multiple regression is suitable to determine whether the most important factor is influenced by the lesser important ones, and if so, to what extent. In this study, Factor 1: Regulatory compliance to rules and regulations is the most important factor because it explains the highest variance; Factor 1 then serves as the dependent variable with Factors 2 to 10 as the independent factors. The results appear in Table 5.

Table 5: Multiple Regression Model

Model	R	R square	Adjusted R square	Std. error of the estimate
1	.794 ^a	.631	.616	.47325

a. Predictors: (Constant), Factor10, Factor 8, Factor 7, Factor 9, Factor3, Factor 4, Factor 6, Factor2, Factor 5

Model		Unstandardised coefficients		Standardised coefficients		Sig.
		B	Std. error	Beta	t	
1	(Constant)	.299	.219		1.362	.175
	Factor 4	.399	.062	.367	6.484	.000*
	Factor 5	.201	.063	.222	3.174	.002*
	Factor 6	.228	.069	.222	3.284	.001*
	Factor 9	.097	.058	.092	1.664	.097**

a. Dependent variable: Factor 1

* $p \leq 0.05$; ** $p \leq 0.10$

The table shows that the calculated variance is $R^2 = .631$ (adjusted $R^2 = .616$). This means that a satisfactory 63.1% of the variance in Factor 1 is explained by the four factors (Factors 4, 5, 6 and 9). These four independent variables are significant (Factors 4, 5 & 6: $p \leq 0.05$; Factor 9: $p \leq 0.10$) and contribute (as per standardised beta coefficients) regression weights of .367, .222, .222 and .092, respectively, to the variance of Factor 1.

The Regression Function Then Constitutes:

Compliance to rules and regulations (Y) = (.367 x Strategic finance) + (.222 x Innovation and goal directed) + (.222 x Visibility) + (.092 x Political and societal impact)

A Model to Measure the Business Performance of PHEIs: The factor analyses identified ten factors from the 18 antecedents and 68 measuring criteria as key factors to manage PHEIs' business performance. In total, some 26 criteria were omitted from the initial theoretical and qualitative model by the statistical analysis. The model has ten factors that explain a cumulative variance of 70.56%. All ten factors have excellent reliability that exceeds the minimum alpha coefficient of 0.70 with ease; six factors even have alpha coefficients that exceed 0.90. The empirical model of business performance for PHEIs is shown in Figure 1.

Figure 1: Business Performance Factors of PHEs

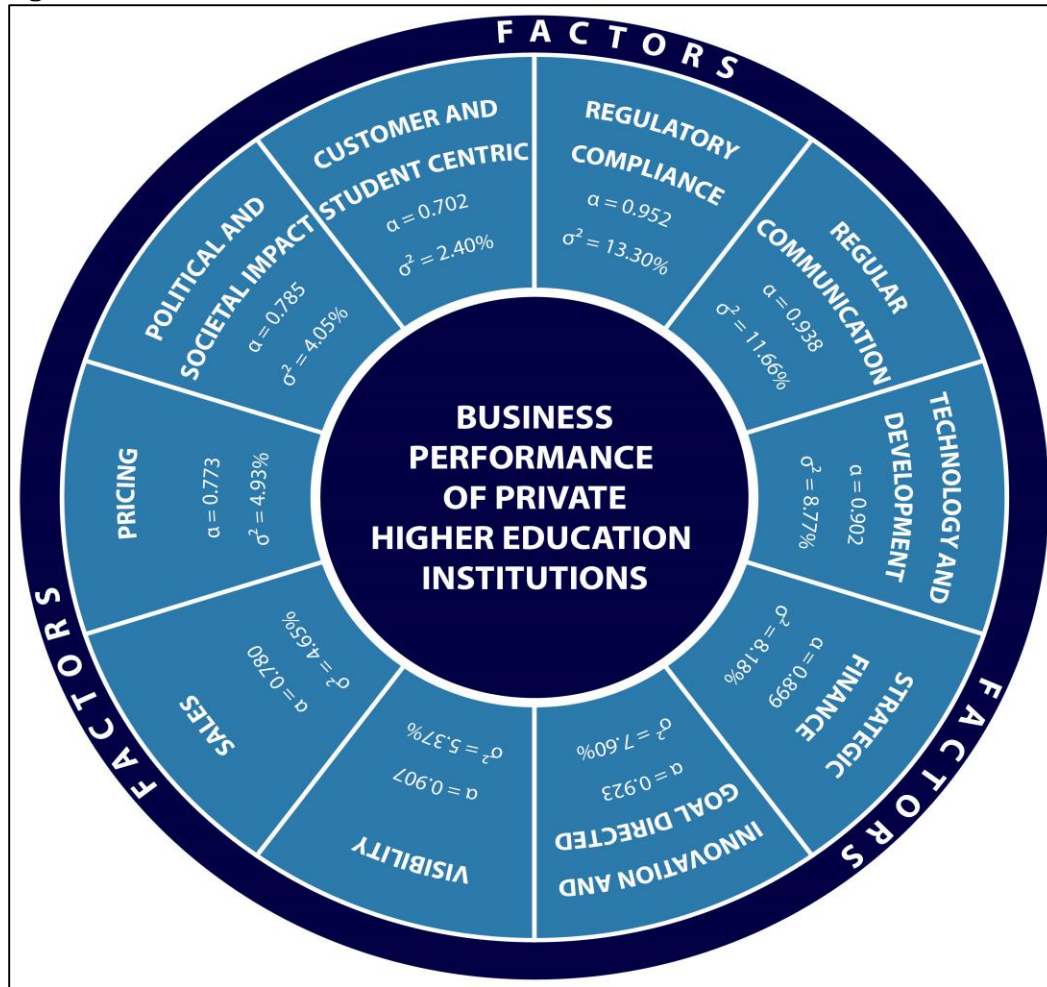


Figure 1 shows the ten factors. Noteworthy is that the factor structure does not possess any sub-factors within any of the ten identified factors. This means that each factor, in essence, is pure in nature and does represent business performance factors per se (Shaikh et al., 2017). The figure also shows the respective variance explained by each factor (as indicators of each factor's relative importance), their reliability and the factors as they were labelled. The findings of the model are partially supported (and in some cases also contradicted) by other researchers. In a study by the Advanced Institute of Management Research (2006:10), three factors are directly supported by their findings. They are Factor 1 (Regulatory compliance with rules and regulations), Factor 7 (Sales) and Factor 8 (Pricing). Their study also identified the most important factor as Regulatory compliance and rules and regulations, while Sales and Pricing were both factors that the institute identified as important educational performance factors.

In this case, Soriano also identified financial management (Factor 4), sales (Factor 7), goal-directedness (Factor 5), price (Factor 8), and research and development of new products and profitability (which is related to Factor 5: Innovation). Factors identified by other studies that were not identified by this study include a well-experienced leadership team (The Advanced Institute of Management Research, 2006:10), the need for achievement and optimism, leadership of the organisation, importance of technology and to be profitable (Soriano, 2010:468). The Advanced Institute of Management Research (2006:10) also reasons that educational performance is dependent on three key interrelated factors that have a significant influence on the current and future success of business schools in the United Kingdom. They are reputation, funding and faculty. The reputation category focuses on government reputation and compliance so as to attract research grants and rankings among business schools.

Soriano (2010:468) also investigated student fees and government grants as a means to assist students with tuition fees. Faculty identified recruitment and retention of experienced faculty members and leadership to guide the business school. However, it is interesting to note that these three factors and their descriptions embed and support most of the factors identified in this study. Regarding Factor 10 (Customer and student-centric) Webster, Hammond and Rothwell (2014:15) support the findings of this research by stating that factors influencing American business schools' performance include being a member of a professional accreditation board (such as the Association of MBAs or the Association to Advance Collegiate Schools of Business), students as the customers of the institution and marketing efforts to increase student numbers in the business school and to increase student retention in the business school. Webster et al. (2014:18) also support re-registration and returning students as a means to increase sales and market share.

5. Conclusion

From the analysis, the following conclusions can be drawn.

Conclusions 1 and 2: This article identified business performance antecedents and its respective measuring criteria. Strongly literature orientated, the study identified 16 business performance antecedents, measured in total by 68 criteria. The study scientifically reduced the 16 antecedents to a more manageable ten factors, measured by 59 criteria (thereby reducing the measuring criteria by 9). It is concluded that the study succeeded to significantly simplifying the model to measure business performance in business schools. Based on the conclusion above, it is also concluded that the simplification of the model now enables an easier operationalisation of the model in the industry, thereby putting academic research to use in practice.

Conclusions 3 and 4: The success of simplifying the model and achieving satisfactory reliability and validity can be attributed to high sampling adequacy as measured by Kaiser-Meyer-Olkin (KMO). (This study had a KMO value of .923.). Additionally, sphericity (as measured by Bartlett) measures whether the data is suitable for factor analysis. The statistics showed that the chi-square was estimated at 319.885 at 10 degrees of freedom. Bartlett's test shows that sphericity was significant with a value well below the 0.05 significance level. The cumulative variance, as explained by the five factors, is also satisfactory at 70.56%. It is therefore concluded that to successfully develop or simplify a model: An adequate sample was obtained; and Sphericity was tested to ensure the suitability of the data to be subjected to further analysis. Without these gatekeeper statistics, the attempts to develop a model are risky. However, the statistics show that, the employment of factor analysis to develop the conceptual model was a low-risk venture.

Conclusion 5: Regulatory compliance with rules and regulations is the most important factor. In this case, the model shows that PHEIs should focus on retaining their compliance in the private higher education sector. This constitutes a competitive advantage because the barriers to enter higher education are high and complex, keeping new entrants effectively out of the market. In addition, existing PHEIs cannot compromise to lose their licence to operate.

Conclusion 6: In addition to the conclusion above, leaders of private higher education institutions should also focus on regular communication, technology and development, strategic finance, innovation and goal-directed, visibility, sales, pricing, political and societal impacts and to be customer- and student-centric, to successfully negotiate the complex challenges to manage PHEIs. The high correlations between the factors clearly indicated that the factors all influence one another; therefore, a positive managerial change in one factor will also positively influence the other factors. This facilitates a better return on managerial inputs because it stimulates positive synergetic forces between the factors.

Summary: In this article, the latent variables or factors to business performance in business schools have been identified. In addition, in simplifying the original set of measuring criteria, the theoretical model was also subjected to reliability and validity confirmation. The data is reliable and the factors also returned satisfactory reliability coefficients. Regarding the validity, the factors can be regarded as pure factors because they do not contain sub-factors with the factor structure. As a result, the article presents a usable validated factor structure that identified the underlying factors that can be used to manage the business performance of

PHEIs. The factors, therefore, present a managerial tool for executives in PHEIs to employ if they want to measure the factors of their institutions and improve their business performance.

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List of Abbreviations

CHE	Council for Higher Education
CFA	Confirmatory factor analysis
DHET	Department of Higher Education and Training
EFA	Exploratory factor analysis
HE	Higher education
KMO	Kaiser, Meyer & Olkin
PCA	Principal Component analysis
PHE	Private higher education
PHEI	Private higher education institution