

Influence of stakeholders' perception on value creation and measurement: the case of football clubs

Influence of stakeholders' perception on value

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Abstract

Purpose – The presented study aims to identify and classify the value factors that influence the value of football clubs from the stakeholder perspective, while also discussing how these factors can affect the choice of valuation methods. The paper considers how value should be measured from the perspective of stakeholders. Research focuses on clubs embedded deeply in a wide interrelated network of stakeholders.

Design/methodology/approach – A mixed research approach was established in order to obtain a more holistic understanding of value creation, value factors and measurement. The research builds on observational study with a mix of retrospective longitudinal study of Polish men's football clubs and interviews with stakeholders, which are then triangulated as part of a critical discussion on valuation methods.

Findings – The results show the most significant value factors determined by the stakeholders. The study discusses which performance and value measures should be used to measure value for the stakeholders of football clubs. Intellectual capital methods and asset-based methods should definitely be relied on as part of measuring the performance of football clubs within the stakeholders' network. All findings suggest the use of the multivariate valuation method in accordance with previous research.

Originality/value – The classified key value factors enable the management of football clubs to properly manage stakeholder relationships and address various stakeholders' concerns in a sustainable way. The paper proposes a research process, which may also be implemented in other studies in the non-profit sector and contributes to the literature in the fields of sports management.

Keywords Stakeholders, Performance measurement, Football, Valuation, Poland

Paper type Research paper

1. Introduction

The aim of this paper is to develop a value measurement of football clubs based on stakeholders' perspective. The study used the case of Polish men's football to reach its aim. This paper relies on different sources of information that are triangulated in the final step of the study in order to increase its validity. The research steps are as follows:

Step 1: Conceptualisation of the problem (described in [sections 1, 2 and 3](#) of this paper)

Step 2: Translation of the problem into specific research questions ([section 3](#))

Step 3: Analysis of football clubs' financial data ([section 4](#))

Step 4: Interviews concerning value factors ([sections 3 and 5](#))

Step 5: Triangulation of the collected data and discussion on valuation methods and their utility from the perspective of football club stakeholders ([sections 6 and 7](#)).



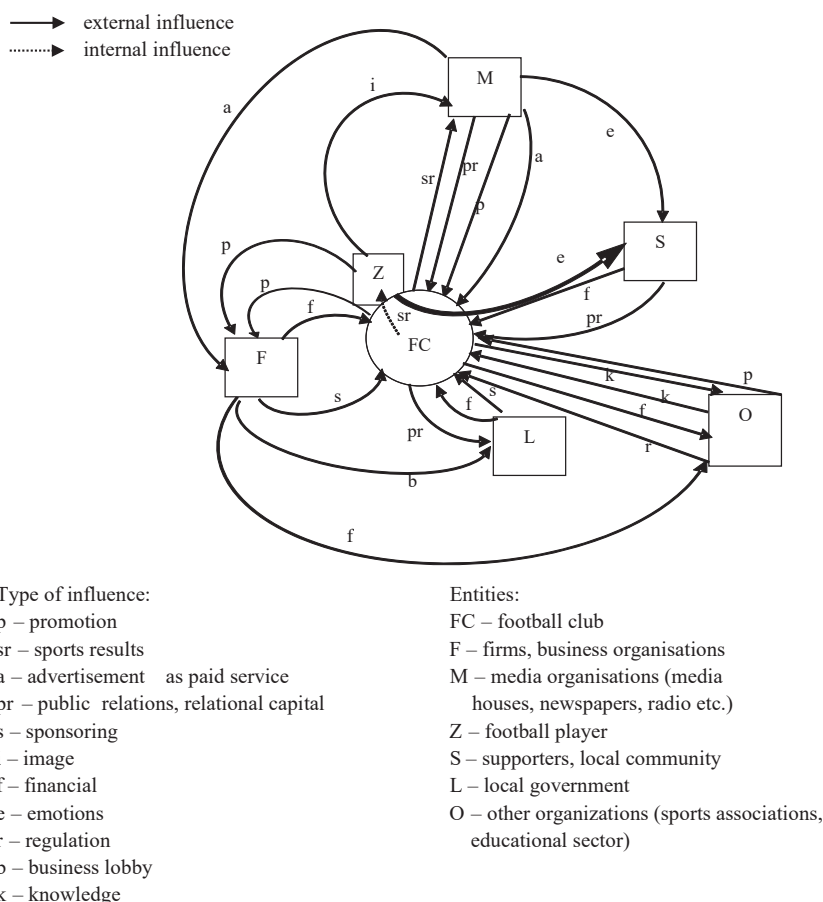
1.1 Stakeholders and value

The value concept in the study is based on the bundle of benefits that the stakeholders will be receiving. The research problem touches on accounting theories about the measurement of financial and non-financial performance. [Stent and Dowler \(2015\)](#) and [Parker \(2005\)](#) distinguish two main groups of such theories. The first group treats social and environmental accounting as complementary to conventional accounting (e.g. stakeholder theory, economic agency theories, decision-usefulness theories, legitimacy theory, accountability theory). The second group focuses on the role played by information in the relationships between the organisation and society (e.g. political economy accounting theory, deep green ecological perspectives, eco-feminist approach, communitarian-based theories). Our study relies on stakeholder theory as a tool to thoroughly investigate football clubs. According to [Freeman and McVea \(2001\)](#), a stakeholder is an individual or group with the chance to influence an organisation's achievement of its objectives or can be influenced by the organisation to achieve its goals. According to the stakeholder view of the firm ([Clarkson, 1995](#); [Post et al., 2002](#)), a company can endure if it is able to maintain sustainable and durable relationships with all of its stakeholders. Hence, these relationships are "the ultimate sources of organizational wealth" ([Post et al., 2002](#), p. 8). In stakeholder theory, stakeholder pressure forces organisations to implement values in their actions they consider important. Therefore, the creation of value for the stakeholders is a goal of the organisation, while stakeholders are meant to provide the resources needed for proper functioning. Consequently, if an organisation wishes to improve its results, it should skilfully balance the needs of its stakeholders ([Clarkson, 1995](#)).

The stakeholder theory also applies to the fields of public, social and sports organisations, including football clubs ([Sanchez et al., 2017](#)). Moreover, it could be developed a step further. [Freeman and McVea \(2001\)](#) limited the concept to the input and output of stakeholders, yet in the example of football clubs we can observe the effects of synergy and deep interrelations ([Figure 1](#)). The influence of stakeholders approach was already studied in the case of non-profit sports organisations and national sports federations and is pointed as an important key to understand sports organisations' activities ([Thompson and Parent, 2021](#); [Ferkins and Shilbury, 2015](#)). The relationships among the stakeholders of football clubs are considerably more intertwined than any simple relationship between employee, client, local citizen and company. Polish football clubs are an exemplification of deep stakeholder influence. [Figure 1](#) presents the structure of the main network of external stakeholders of a football club in Poland along with the types of influences. The figure was prepared based on observations and collected data concerning the legal and trade relations between the entities described on the basis of a concept from [Senaux \(2008\)](#) and a study from [Gerke and Wäsche \(2019\)](#) on football networks.

A case study of the English Premier League (EPL) ([Castro-Martinez and Jackson, 2014](#)) stated that the value created by football clubs is created collaboratively with the stakeholders and called it creating shared value. Important input into discussion about value co-creation in sports management was provided by [Woratschek et al. \(2014\)](#) and their "sport value framework". They noticed that in case of team sports events, value is always co-created by many different stakeholders. And the role of firms, customers and other stakeholders is to integrate the resources of their specific networks to co-create value. Moreover, sports firms create value propositions mainly in the configuration of a value network as presented on [Figure 1](#). Football clubs in Poland accomplish social objectives by engaging in certain activities ([Pawlak and Smoleń, 2015](#)). In the case of football clubs, we can see that a network ([Figure 1](#)) cooperating together creates a common good for different stakeholder types. In some cases, this is a direct result of legal relations, when local government institutions are co-owners of the club, while in other cases it is a result of relations as viewed from the managerial perspective of stakeholder theory. Therefore, to properly approach the notion of

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Source(s): Own elaboration based on Senaux (2008), Gerke and Wäsche (2019), Wagner *et al.* (2021)

Figure 1.
Network of a football club in Poland

value measurement in football clubs, the stakeholders of these clubs need to be analysed and included in the process, as mentioned by Sanchez *et al.* (2017), in order to show the importance of all stakeholder groups in football clubs.

1.2 Gap in the sports valuation and performance literature

Gaps exist in the literature concerning efficiency and valuation in the sports sector. While some research on the methods used to value football clubs in Europe exists, it is very limited with respect to the countries in Central and Eastern Europe. Most of the valuation discussion is based on very commercialised leagues, for example, the English Football League. It exclusively concentrates on the shareholder perspectives relevant to privately owned football clubs in England, France or Italy (Scelles *et al.*, 2013, 2017, 2018). However, in Poland, one of the main shareholders of such clubs is local government. Moreover, most football clubs in

Poland have negative financial results, which is why they need local government support. Further, football club research in Europe primarily deals with media value, football player value and the stock price of listed clubs (Callejo and Forcadell, 2006; Demir and Danis, 2011; Garcia del Barrio *et al.*, 2016; Garcia del Barrio and Pujol, 2013; Leifheit and Follert, 2021; Garcia-del-Barrio, 2018), where it is suggested that a football player is both a specific asset and a human resource (Dobson *et al.*, 2000; Morrow, 1996, 1997; Shareef and Davey, 2005; Perechuda, 2016; Lozano and Gallego, 2011). Garcia del Barrio *et al.* (2016) and Garcia-del-Barrio and Pujol (2021) propose a methodology for evaluating and rating the intangible talent of football players. Most of these studies were conducted in top European leagues in Spain, England, Germany, France and Italy, and included well-known football brands.

However, only a few authors have researched the phenomenon in Central and Eastern European (CEE) leagues, such as in Poland or Romania (Bednarz, 2014; Wyszynski, 2016; Roşca, 2012, 2014; Havran, 2014; Iconomescu, 2017; Novotny and Sciklin, 2011). Performance measurement research in sports clubs in CEE may therefore be considered underdeveloped. The reason for this may be the lower quality of football clubs and sports in general, the media as well as the relatively poor business results in the region of CEE. Only a small number of authors have considered sports clubs with less business efficiency and verified their performance measurement methods (Wyszynski, 2016; Novotny and Sciklin, 2011; Szymanski and Kuypers, 1999). In the field of sports business, authors have chiefly sought to identify financial strategies (Pawlak and Smoleń, 2015) or business models (Cyfert and Janicki, 2016) more than analyse their application to valuation and performance measures or the usefulness of financial and non-financial information. Additionally, another issue is in the case of football business: How is the intellectual capital valued in football? Is it based on the information in the financial statements, while it is also necessary to use non-financial information in such methods? Prior studies in other business areas suggest that non-financial performance measures are also relevant in the discussion on any valuation methods (Amir and Lev, 1996; Ittner and Larcker, 1998; Behn and Riley, 1999; Trueman *et al.*, 2000, 2001; Nagar and Rajan, 2001; Simpson, 2010; Carlsson-Wall *et al.*, 2016).

Defining and specifying performance in the sports business field is not easy because it is necessary to identify the evaluation criteria and factors affecting the performance (Carlsson-Wall *et al.*, 2016). It is also necessary to determine which of these factors is the most significant. A football club's development depends on the sustainability of its stakeholder relationships: a club must consider and engage not only shareholders, employees and institutional/individual clients, but also public authorities, the local (or international, depending on the brand recognition) community and civil society, financial partners, sponsors and so forth. Nowadays, the quality, that is, the sustainability of stakeholder relationships, must be the guiding principle of a football club's strategy like it is for other business entities (Jabłoński and Jabłoński, 2016). There are still many issues related to stakeholders' dependency. Ma and Kurscheidt (2019) find that football in China (with its specific character and last reform (Peng *et al.*, 2019)) also faces substantial governance problems caused by the divergence of goal setting, organisational inefficiencies and compliance issues. In this relational view of a football club, success and value cannot be measured in a narrow shareholder perspective but only by adopting a more holistic and comprehensive stakeholder framework. Clubs need appropriate systems to measure and control their behaviour in order to assess whether they are responding to stakeholder concerns effectively and to communicate and demonstrate the results they achieve. These new evaluation and reporting systems should seek to broaden, integrate and improve the traditional financial approaches to performance measurement and corporate valuation by

ensuring that stakeholders' needs and requirements are duly taken into account (Perrini and Tencati, 2006; Plumley *et al.*, 2017).

Most research here concerns the performance of sports clubs but is based on the very commercialised Premier League (Plumley *et al.*, 2017). As an atypical enterprise, a football club has a wide group of stakeholders to which it provides benefits (Sanchez *et al.*, 2017). In addition to functioning as an enterprise in the form of a joint-stock company, a football club often performs various social and public tasks. Further, creating benefits for the stakeholders touches on the existence of intangible and hard-to-measure values in the club, which is why it is necessary to properly identify and classify key value-creating factors of football clubs. The summary shown in Table 1 presents the main areas of the literature gaps concerning football clubs' performance.

2. What is the problem with value of football clubs? Theoretical background

The stakeholder network (Figure 1) determines the demand for financial and non-financial information (Freeman and McVea, 2001) in the process of measuring the value of a football club. A stakeholders' approach shows that the expectations of football club stakeholders are not directly monetary in nature for all of them. The financial condition of football clubs is paramount in their ability to deliver non-financial value to stakeholders, as a bad financial condition may lead them to focus on improving it and not enable them to deliver non-financial value to stakeholders. A financial analysis of Polish football clubs and understanding how they function are fundamental for understanding the limitations that arise while applying methods to measure value.

The paper is partially embedded in the value-based management theory where the focus is on value indicators of the organisation, mostly financial ones, such as economic value added (EVA), market value added (MVA) and shareholder value added (SVA). Black *et al.* (1998) divide these measures into three groups. One of them includes value drivers which are described later in this paper (sales revenue, operating profit, asset investment, fiscal performance). Another group includes as EVA, MVA and others of a similar structure, which are considered to be superordinate to the rest. The final type of measures, subordinate to the

Research problems in the literature related to performance and valuation in football clubs are associated with

- o Human resources topics (Dobson *et al.*, 2000; Morrow, 1996, 1997; Shareef and Davey, 2005; Lozano and Gallego, 2011)
- o Football clubs listed on the stock exchange or the shareholders' perspective (Callejo and Forcadell, 2006; Demir and Danis, 2011; Prigge and Tegtmeier, 2020)
- o Marketing and media in football (Garcia del Barrio *et al.*, 2016; Garcia-del-Barrio and Pujol, 2021; Garcia del Barrio and Pujol, 2013)
- o The economic perspective (Dermit-Richard *et al.*, 2019; Terrien and Andreff, 2020; Terrien *et al.*, 2017; Andreff, 2011)
- o Corporate governance (Ma and Kurscheidt, 2019; Schubert, 2014; Winand and Anagnostopoulos, 2019)
- o Mainly the English, Spanish, Italian, German and French men's leagues

Source(s): Own elaboration

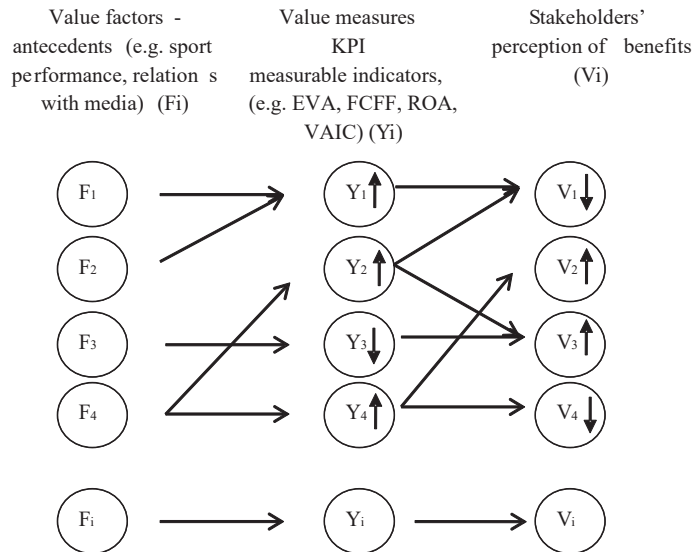
Research gaps concerning football clubs

- o Assessment of the applicability of corporate valuation methods (Markham, 2013; Scelles *et al.*, 2013, 2016, 2017)
- o Assessment of financial information disclosed by annual reports (Lozano and Gallego, 2011)
- o Valuation of intangible assets (Shareef and Davey, 2005; Perechuda, 2020; Leifheit and Follert, 2021)
- o Key performance indicators (KPIs) and the holistic performance management of football clubs (Plumley *et al.*, 2017)
- o The stakeholders' perspective (Terrien and Andreff, 2020; Senaux, 2008; Gerke and Wäsche, 2019)
- o Central and Eastern Europe football leagues where football remains the top national sports
- o Women's leagues (Valenti *et al.*, 2018)

Table 1.
Literature summary of
football management
studies on performance
and valuation

other two, are, for instance, measures of the effectiveness and performance of processes, human resources management, process management and measures of intellectual capital. From the standpoint of viewing the finances of enterprises and financial reporting, the primary drivers of change in enterprise value which directly concern business performance are the enterprise value drivers (Black *et al.*, 1998). These drivers do not themselves create value but are its definition, valuation and measure, a secondary effect of antecedents such as key activities, resources, processes and relations.

To understand enterprise value creation, a value analysis matrix was elaborated (Figure 2). The key step is to link the antecedents, factors (F) such as relational capital and processes, to specific value measures (Y). These measures are associated with stakeholder benefits. At the level of measures (Y), quantifiable information begins to surface, making it reasonable to assign change directions and change magnitudes to them. Chosen drivers measure the value of specific types of benefits expected by stakeholders that therefore should be properly assigned to them (V). In Figure 2, chosen factors can interfere with different measures which can interfere with different benefits perceptions. It shows that there is no one clear way to catch the value for all possible stakeholders' expectations. Performance of value



Key:

Fi - value factors - antecedents

Yi - value drivers - indicators, value measures, key performance indicators

Vi - benefits or value expected from the stakeholder perspective

i – can achieve any number dependent of numbers of factors (Fi), value measures (Yi) or benefit perceptions (Vi)

↗ - influence

↑ - upward trend direction (increase)

↓ - downward trend direction (decrease)

Figure 2.
A value analysis matrix

Source(s): Own elaboration

factor F4 can be measured by methods: Y2, Y4 and Y4 methods cover only V2 and V4 stakeholders' benefits expectations. Cases 1 to 4 are just simplification.

Application of the proper method for conducting a performance measurement must be based on the process of creating benefits and value for the stakeholders (Figure 1).

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3. Research process

3.1 Problem and goals

While identifying the vital factors impacting the value of football clubs, it must be noted that value is essentially the bundle of benefits that the stakeholders will be receiving. The clubs themselves may show a negative value from the financial perspective of the owner, but the benefits received by all stakeholders are not necessarily presented as part of clubs' financial results.

The research problem addresses the question of whether football sports clubs' value factors are so unique that the traditional valuation methods do not include the key factors which affect the value of these clubs from the stakeholders' perspective.

The objectives of the paper are identification and classification the factors impacting the value of men's football clubs in Poland while also discussing how these factors can affect the measurement of value. In order to accomplish the research goals, the following questions were posed:

- (1) What are the different economic, social and infrastructural factors which create the value of football sports clubs?
- (2) What is the respective importance of these different factors from the stakeholders' perspective?
- (3) Which current valuation method is the most suitable for application to football clubs?

No clear approach to this problem can be identified in the literature. The research conducted thus far helps determine which existing enterprise valuation methods are most suitable for football clubs, which factors are not taken into account by these methods and hence how they can be modified. The research presented in this paper seeks to expand what is known about the factors shaping the value of football sports clubs and to begin the discussion on performance measurement indicators that ensure the sustainability of stakeholder relationships is maintained.

3.2 Methodology

The interview method was chosen due to the need to acquire new information about the financial and non-financial factors that affect football clubs and determine their success.

Research methods were selected to suit the mixed approach, which may produce more extensive results. This approach provided the researchers with additional information that helped identify the key value factors. The outcomes of the case analysis and the interview results are triangulated in the discussion section.

This paper relies first on the qualitative research approach because the goal is to understand, identify and classify the factors creating the value of football sports clubs from the stakeholders' perspective. The approach chosen for the research leads to a more holistic understanding of value creation and measurement within its context, noting that a similar approach was taken by accounting and performance management researchers (Llewelyn, 2003; Hopper and Hoque, 2006). As a result, the paper develops methods related to enterprise valuation theory and the theory of enterprise value management based on the case of sports clubs, which determines the cognitive nature of the research.

A case study analysis of football clubs is undertaken in the research because this method helps describe, explain and generalise the phenomenon under study (Yin, 2004). The purpose of employing this method is to assess the current valuation methods from the standpoint of football club value measurement and to determine which valuation methods most accurately reflect the value of a club. This approach was chosen since knowledge concerning football club value measurement is still in its early stages, which justifies the use of this research method as argued by Yin (2004). Poland was selected as a representative large country in CEE which may be considered as an emerging economy. Football in Poland is regarded as a national sports. Although Polish football clubs are still not successful in European competitions, they appear as research objects in management, finance and economic science. The clubs selected for the case analysis (Tables A1 and A2 in Appendix) are those which participated in the Ekstraklasa league (the highest-level men's football league) for at least two seasons during the 2010–2014 period, and which in that period had at least three years of continuous financial data reporting in a constant income statement–company balance sheet format. The data were collected from databases such as EMIS (emerging markets research, data and news), Amadeus and also directly from the football clubs' financial statements. The data were used to calculate the chosen financial indicators. In order to compare financial indicators, the mean indicator and the maximum and minimum value ranges of the selected ratios were considered. The date range was chosen in order to include UEFA Euro 2012 which took place in Poland and the changes made during that time due to organising a football tournament at such a level. Ultimately, 11 clubs from Ekstraklasa that met the criteria were chosen for the research (the total number of clubs is 16, and it is noted that, except for one club listed on the NewConnect stock exchange, they are unlisted joint-stock companies). It must be stressed that the choice of clubs is also affected by the fact that every season in the highest league, the two clubs ranked lowest in Ekstraklasa are demoted to the lower league, with their spots being filled by two clubs advancing from that league. For this reason, the clubs selected for the research are those which played in the highest league for most seasons in the examined period.

The case study analysis is primarily based on financial analysis and an analysis of information contained in financial statements and reports on the researched clubs published by professional consulting institutions. The study relies on data from three yearly reporting periods of the chosen clubs. However, since during the period under study some clubs changed their reporting periods from the calendar year to the season year (from the start to the end of the season), the data were converted to comparable values (a few of reports were disclosed for 1½.-year operations and income statement data needed to be modified annually for comparison). Further, the sports business is characterised by one-off occurrences, such as the substantial sales value of a player. In order to reduce such effects in the analysis, the study relied on average data from three reporting periods. The case analysis which is conducted contributes to the answers of the first and second research questions. In order to describe the sports business, the chosen performance indicators are compared. Data are collected after the football league transformation period, and all possible cases in the highest football league are taken into account. This part of the research complements the interviews that were performed.

In order to identify the key factors influencing the value of football clubs (first research question) (Table 2), interviews with stakeholders were carried out. Participant observation was also used in order to classify specific stakeholders of football clubs and their expectations of clubs, where observations were made by the authors during workshops, meetings and conferences for sports managers, coaches, players and sports activists. Moreover, observations were made while visiting football clubs and municipal offices and in meetings between fan representatives, municipal employees, representatives of clubs and members of a football federations' committee. The observations took place between 2013 and

Sorted by weight	Factors	Weight (%)	Financial factors	Players related factors	Intellectual capital factors	Sports performance factors	Influence of stakeholders' perception on value
1	Player value	6.04	+	+	+	+	
2	Revenue stability	5.63	+				
3	Liquidity	5.53	+				
4	Skill level of players	5.48		+	+	+	
5	Proper club strategy	5.19			+		
6	Sports level	5.06		+		+	
7	Cooperation with local authorities	4.47			+		
8	Competencies of managerial staff	4.40			+		
9	Revenue from sales of media rights	4.34	+				
10	Coaching staff	4.32			+	+	
11	Sponsor contracts	4.27	+				
12	Media attraction	3.88			+		
13	Brand recognition	3.83			+		
14	Condition of infrastructure	3.75					
15	Development expenses (own academy)	3.47	+	+	+		
16	Match attendance	3.39					
17	Organisational structure effectiveness	3.37			+		
18	Participation in European tournaments	3.19				+	
19	Internal communication in the club	3.03			+		
20	Transfer policy	2.88		+	+	+	
21	Club reputation	2.80			+		
22	Corporate governance	2.70			+		
23	Communication with environment	2.37			+		
24	Customer loyalty	2.26			+		
25	Location	1.70					
26	Tradition	1.59			+		
27	Participation of foreign players	1.05		+		+	
Sum of factors' weights in total and in a chosen category (in %)		100.00	29.28	23.98	62.08	28.02	

Note(s): + Factor was assigned to the given factor group (a single factor may belong to more than one category)

Source(s): Own elaboration

Table 2.
Key success factors of football clubs in Poland

2015. These methods were chosen due to the need to acquire new information, more specifically, the research aimed to gather information about the economic and non-economic factors influencing football clubs' value and their performance. These observations were realised to prepare further interviews. During and after observations, preliminary interviews

were performed, which allowed a tentative list of success factors for football clubs to be prepared for final interview.

The analysis of the key value factors was performed on the basis of interviews carried out by the authors of the paper with representatives of the main stakeholder groups in a chosen football club. The method implemented stakeholders' perspective into value measurement. The interviewed individuals were employed by, worked with or were a representative of an institution associated with the football club. Ten individuals held the following positions and roles: manager, coach, local sponsor, alderman, municipal employee in the department of sports and health promotion, media representative, player, fan and local citizen (non-active fan) and football association representative. The interviews were conducted between 2015 and 2018. The data were collected in the form of notes and memos. The collected information was reduced, displayed and classified in a way to help answer the research questions (first and second) as recommended in a qualitative approach (Walliman, 2011; Taylor and Bogdan, 1998). The research was carried out on a sample of 10 individuals from a single football club whose characteristics were shared by most of the football clubs in the case analysis (ownership structure, fan activity, struggling with financial difficulties, size of the city, similar role in region as in other cases, close relationship with local government). The number of respondents is limited, which leads us to future further elaboration and validation needs of obtained results. There is also a risk of subjective perspective of respondents. In order to partially limit the risk, we have chosen one of the most representative football club on analysed market. The interviews enabled the success factors to be ranked from the most to the least important in the perspective of the interviewed individual, who had to rank all 27 factors from most to least important. The interviewer's role was merely to help the interviewee understand some of the unclear factors in case. Yet it is crucial to remember that the method used has certain limitations. The researcher interferes in the interview by giving an introduction to and explaining the purposes of the interview. Moreover, the interviewee is subject to various factors at the same time, which may affect their judgement, such as recent events in their life and the opinions of others. As a consequence, the interview results represent a certain perspective on viewing the problem at a given point in time. The material became saturated after all of the main stakeholders were included, allowing the interview process to be concluded. The material was gathered, the factors were grouped and merged into common categories and then recalculated so as to present weights using the rank-sum procedure. The factors were sorted according to the scores given in the interview (Table 2). The factors were ranked from 27 (the lowest) to 1 (the highest). In order to compute the weights for each factor, the rank score of each response was reversed. The value of the obtained score for all responses was summed up for each factor and divided by the total value of the scores. The result is the weight of each factor. In this method, weights are the individual ranks normalised by dividing by the sum of the ranks (Stillwell *et al.*, 1981).

4. The financial side of the football business in Poland

The aim of this section is to present financial situation of Polish men's football clubs in order to open the discussion on the third research question (Tables A1 and A2 in Appendix). Seven of the 11 analysed clubs are directly or indirectly linked or owned by public institutions. It is also observed that the chosen clubs in this group are characterised by negative equity capital, revealing their poor financial results. Local government units support and finance sports clubs, motivating them by way of the public relations (PR) of the local government and promotion of the region. Only four of the analysed clubs show a debt level below 100% of their total asset value. Analysis of the liabilities shows that the mean coefficient value of the debt ratio indicator in three reporting periods during the period 2010–2014 reaches 208% of the asset value among the researched clubs (Table A1 in Appendix).

Despite the difficult financial situation, most clubs do not go bankrupt, which is another aspect to be considered with respect to the approach to measuring the value of these clubs. To illustrate the effects of applying indicators of financial assessment, discriminant measures used in assessing the risk of bankruptcy were also applied (Table A2 in Appendix). Almost all of the clubs are within the insolvency risk zone.

Due to the negative equity, it is hard to find the optimal capital structure value (Giner and Reverte, 2001). Additionally, interviews with stakeholders showed that in most cases Polish football clubs take a loan from their owners, and, when they are unable to service the debt, it is converted into equity, which raises serious questions about how to interpret the financial information on the capital structure found on the balance sheet. This also limits the use of value measurement methods that rely on profit and loss results. Concurrently, it raises a question about the possibility of using an income-based valuation and methods based on value added and making use of the weighted average cost of capital (WACC). This study investigates how many cases have a positive value of calculated WACC without estimation of the market value of equity (privately held companies). The calculation showed that 6 of the 11 clubs under study reveal a positive WACC (equity calculated based on book value), with the 5 remaining cases being negative. On the other hand, using marketised WACC (positive in most cases) for the EVA calculations still produced negative values of this indicator in all analysed cases (Table A1).

Football clubs are also specific in terms of financial information regarding their asset structure. Most of the researched clubs (with the sole exception of the Zagłębie Lubin club) do not have their own sports infrastructure and instead use facilities belonging to the local government. As a result, tangible fixed assets usually constitute a small share of the asset structure of football clubs. Among fixed assets, the most important are players acquired through transfers. Players are a key value factor of football clubs and hold the potential to create and increase club value (Markham, 2013; Perechuda, 2016; Kotáb and Scholleová, 2011).

Assets resulting from player transfers are key component of football clubs' overall assets (included in intangible assets) that is subject to depreciation, much like tangible fixed assets. Depreciation of player assets is an important part of the costs of a football club, and profits and losses on the sale or acquisition of players may significantly impact the financial results (Lozano and Gallego, 2011; Amir and Livne, 2005). Table A1 illustrates the average 3-year intangible assets share in the total assets of football clubs. The average level reaches 25% of the clubs' book value.

It is worth noting that a club's players are not necessarily players acquired through transfers. A club also has players who are alumni of the club, those who joined the club by free transfer since they were not under contract with any other club or those on loan from another club. Information regarding club alumni and players on loan is not visible in the data presented under intangible assets on the balance sheet. Such players may be identified through the profit and loss account, and on the payroll. Moreover, a club's main intangible resources also include the coaches and managers the club employs. In these cases, identifying them in the financial statement is also possible by looking at payroll expenses. This argues in favour of applying the intellectual capital valuation method as already concluded in other studies based on the football sector (Yasar *et al.*, 2015; Perechuda, 2020; Shareef and Davey, 2005). This group of methods should be grounded on the assumption that wages constitute an investment in intellectual capital (VAIC method (Pulic, 1998)).

The level of salaries and their share in revenue may reveal a club's strategy. The average level in the researched clubs reaches 86% (Table A1). This means that, on average, 86% of sales revenue is appropriated for salaries, a significant portion of them being player salaries. It seems alarming that among the 11 examined clubs, 3 had salary levels near the level of the sales revenue achieved, and 1 club considerably exceeded that level.

When considering the above analysis, two conclusions come to mind:

- (1) Players that comprise 25% of total assets absorb over 86% of club-generated sales revenue for their functioning, and
- (2) Players affecting revenue, cost and balance sheet items should be taken into account in the processes of measuring the value of a club and constructing a performance management system.

The analyses of stakeholders and football club financial data indicate that investors who decide to finance a football club in Poland have no reason to expect that the club will generate a capital return on the capital invested. The benefits received by the investors, many of which are local government units, are different from profits. Private investors also contribute their capital expenditure to the club, often acting as a sponsor and expecting to build their personal image or the image of their business (Garcia del Barrio *et al.*, 2016). This amounts to the club generating intangible benefits for its investors. Therefore, the application of value drivers based on generating cash flows to the investors, along with the use of methods relying on the cost of capital, is not justified. What is more, it is necessary to bear in mind that the measurement method should take all key stakeholders into account.

5. Value factors – interview results

The main objective of the study was to identify, classify and grade the factors which influence football club value. This is needed to help define the correct attributes that measure the achievements and value of a football club (Figure 2). In the paper, understanding of value factors is in line with Freeman and McVea's (2001) work. Therefore, key success factors are the specific areas of enterprise activity to which managers should focus their attention when aiming to maximise value for the stakeholders. Consequently, they are also the key value factors.

The authors specified four categories of success factors (Table 2) that overlap each other (e.g. player value is in the category of factors related to players and in the category of factors related to intellectual capital). There are factors related to finance (e.g. revenue stability, revenue from sales of media rights), players (e.g. sports level, skills), intellectual capital (e.g. media attraction, relational resources concerning local government units) and sports performance. These four categories are consistent with the literature review (Table 1) which listed some research groups concerned with the performance of sports organisations. The chosen stakeholders' perspective also determined the listed categories of factors. Financial factors were determined by the perspective of shareholders, financing institutions such as local governments and the football association. Moreover, much of the research in the literature review deals with the financial aspects of sports (Table 1). Factors related to players were determined by the stakeholders' perspective: the players themselves, media, fans, management, coaches. There is also a lot of significant research about the performance, valuation and transfer of football players (Table 1). Factors related to intellectual capital (IC) were grouped in view of the social and relational capital created by the football club network (Figure 1) which in previous research is called collaborative value co-creation (Castro-Martinez and Jackson, 2014). Factors related with IC were grouped by reason of the share of intangible assets in football clubs (Table A1 in Appendix), social and media activity (such as CSR actions (Roşca, 2014)), physical and sports education, fan relations or brand creation (Table 1), human resources topics (Table 1) and the expectations of stakeholders such as local government and private sponsors (Figure 1). The last category is crucial because it relates to the sports performance of leagues, clubs, teams and players. It is these aspects which are fundamental to the building of any value in sports organisations and make this business so different from others (Szymanski and Kuypers, 1999; Carlsson-Wall *et al.*, 2016).

The research on the key success factors and values in football clubs has demonstrated and confirmed the previous assumptions, namely, that the key factor determining the business performance of a club is its players. Their value is at the top of the hierarchy of success factors. The weighted sum of all success factors related to players, that is, player value, transfer policy, the participation of foreign players, training of junior players, sports level of the team and the skill level of players, amounts to over 24%. In addition, the structure of the top ten key success factors reveals three factors are related to the players (Table 2). It is noted that the weighted sum of the first ten key success factors exceeds 50%. It may also be observed that as many as four factors from the financial area of a club's activity are listed in the top 10: player value, revenue stability, liquidity and revenue from sales of media rights (chiefly broadcasting rights). On the other hand, all the factors from the financial area have a total weight of 29%, thereby confirming the intuitive assumption of Senaux (2008) that if professional sports clubs appear to be badly run, it may well be because the financial result is neither the unique nor necessarily the prime objective of the various stakeholders and that some of these stakeholders may be favoured at the expense of others. Such behaviour could threaten the organisation's survival in the long run as seen earlier in this paper (see Table A1 in Appendix). Among the key success factors, it can be observed that approximately 62% of the weight is assigned to factors related to intellectual capital.

Three aspects which strongly determine the business performance of sports clubs are worth noting:

- (1) Intellectual capital. In this category, the key success factors are credited with a high share of all classified factors. Human resources, players, coaches, managers and relational resources including relationships with local government units are worth mentioning in this category. With regard to human resources such as coaches and managers, prior literature also emphasises their prominent role in affecting football club value and is highlighted not only in studies on the main Western European football leagues (Shareef and Davey, 2005; Bell *et al.*, 2013; Risaliti and Verona, 2012) but also in studies on Eastern European leagues (Wyszynski, 2016; Roşca, 2012, 2014).
- (2) Intellectual capital includes an important group of factors associated with players (the sum of weights is approximately 24%). At the same time, the share of intangible assets disclosed on the balance sheet is 25% (Table A1 in Appendix).
- (3) Financial factors, when considered in terms of the concept of value creation, are mostly value drivers (revenue stability, liquidity) and are a secondary element with respect to the factors of value creation. Factors related with intellectual capital are the most important factors for success; however, success based on intellectual capital is only possible if financial situation allows it.

Moreover, complementary information includes the share of factors related to sports performance, which achieved the level of 28% (Table 2). It supports the Senaux's (2008) and Terrien *et al.*'s (2017) statement that sports clubs are highly focused on sports results. At the same time, the level is not high enough to show that sports results are the main factor in value creation, although it is a rather significant factor. Results need further elaboration mostly on validation of obtained weights in Table 2. The classification of the key value factors may be used in future research to combine the proper value measurement method with each group of value factors. However, first of all, it is necessary to discuss valuation methods in the context of these key value factors and characteristics of the sector.

6. Discussion on valuation methods

Discussion on valuation methods is achieved by triangulating (Hopper and Hoque, 2006) all of the data collected and established during the research. It is worth mentioning that the obtained data pertain to the Polish men's football league and the findings need further research in order to be transferable to other countries. In other Eastern European countries, additional verification of the key value factors by interviews or a survey is needed. The analysis of valuation methods leads to a summary of the answers to three research questions:

- (1) What are the different economic, social and infrastructural factors which create the value of football sports clubs?
- (2) What is the respective importance of these different factors from the stakeholders' perspective?
- (3) Which current valuation method is the most suitable for application to football clubs?

The current literature usually mentions three main groups of business valuation methods (Fernandez, 2017). Table 3 presents a concise overview of these methods while commenting on what these methods do not take into account with regard to value creation factors in sports clubs.

As shown in Table 3, the income method group may have very limited application in the case of football clubs. Greater application potential may be found in asset-based methods. The limitations arise from the lack of UEFA Financial Fair Play (FFP) regulation effects and the soft budget constraint (Andreff, 2015; Storm, 2012; Storm and Nielsen, 2012) because companies struggle year after year with financing. Although analysed sample of financial data was limited till 2014, more recent paper still disclosed bad financial health of men's football clubs in Poland after UEFA FFP implementation (Wyszyński, 2021).

Other valuation methods exist apart from the three main groups of valuation methods. For instance, there are mixed methods which are the result of combining the advantages of the

Types	Specification of the method
Income-based	It does not take all key stakeholders into account. Clubs have liquidity difficulties, rendering them unable to generate free cash flow for their creditors and owners. Another difficulty is negative equity value. Also, the researched clubs are not listed on the stock exchange. On the other hand, the fact that a poor financial situation is a constant element of club functioning, and yet clubs continue to function and do not go bankrupt, allows the conclusion that there are stakeholders which accrue certain benefits from their functioning, but these benefits cannot be valued only by income-based methods. The financial factors are classified by stakeholders but achieved 29% of overall importance (Table 2)
Asset based	Among asset-based methods, the net adjusted asset method provides the greatest utility for football clubs. It follows that the player value should be adjusted and valued in the market value of these players, as suggested by Lozano and Gallego (2011). This method allows the inclusion of player value. However, players are only one part of a club's intellectual capital. The total weights of the key success factors related to intellectual capital achieved 62% (Table 2). The researched clubs do not go into liquidation despite their negative financial results. The replacement method would be difficult to apply in the case of player registration card valuation. There is another element worth mentioning concerning this method, namely, that asset value can be significantly inflated if a club owns a stadium
Comparative	The main issue of applying these methods in the case of football clubs is the lack of a liquid market (Demir and Danis, 2011; Perechuda, 2016) or comparable transactions able to serve as a reference

Table 3.
Discussion on the main valuation methods

Source(s): Own elaboration and based on Fernandez (2017), Brealey and Myers (2002), Damodaran (2012)

asset-based and income-based methods. They build on the assumption that value is shaped not only by assets but also by the ability to generate income. However, relying on the profit or loss position is problematic for measuring club value as long as clubs produce losses year after year without going bankrupt and the profits are not what shareholders and other stakeholders expect (Terrien *et al.*, 2017). Aside from the use of mixed methods, there are some unconventional methods that should be mentioned. These include all methods that cannot be classified in any of the groups mentioned previously. Among these methods, those that include emotional engagement (Zarzecki, 2010) or intellectual capital (Pulic, 1998) are interesting in the football club context and should certainly be considered when constructing a performance measurement method, as already noted in leagues such as the Turkish one (Yasar *et al.*, 2015). The valuation of intellectual capital measures is often based on non-financial information. The outcome of the research corresponds to the study by Sievers *et al.* (2013) who discussed the usefulness of accounting information for investment purposes and highlighted non-financial information as evidence for gauging the overall valuation methods. In addition, Amir and Lev (1996) suggest that market value in the wireless sector (where intellectual capital is a key value factor) may be explained by non-financial indicators.

7. Conclusion

Identified and classified key value factors enable the management of football clubs to properly manage the stakeholder relationships and address the various stakeholder groups' economic, sports and social concerns. Discussion on valuation methods in section 6 is an input for future valuation method proposition which should include all most important value factors identified in the study.

Senaux (2008) and Terrien *et al.* (2017) state that professional football clubs in Europe can have different orientations (profit maximisation, utility maximisation under hard budget constraint, utility maximisation under soft budget constraint). It is a bit opposite to professional franchises in the USA which are organised with a view to maximising their economic efficiency. Utility maximisation is represented by the complex set of football clubs' goals, which are not always fully integrated, shared or defended by all club stakeholders, which was also found by Ma and Kurscheidt (2019). The research conducted answered the problem of interest marginalisation in a narrow stakeholder perspective. The paper focused on the notion of value factors and assumed that value measures should be selected to reflect broad stakeholder interests. Sanchez *et al.* (2017) argue that a company's objective is linked to maximising the capital invested by the owner(s). However, an investment decision is, like other human decisions, aimed at receiving satisfaction from the benefits that accrue. A higher return on investment means greater investor satisfaction; yet other rewards or emotional dividends may also increase satisfaction. Also, Sánchez (2012) discusses cases, such as satisfaction with participating in a family business, that involve satisfaction with the capacity to influence public opinion and political decisions. A similar situation is observed in football clubs from the stakeholders' perspective based on the present study.

In the paper, we discussed which performance and value measures should be used to measure value for the stakeholders of football clubs. Intellectual capital methods should definitely be relied on as part of measuring the performance of football clubs in Poland as well as in the wider CEE region. Besides, asset-based methods better reflect the financial situation of football clubs than income-based methods. This is true in particular when applying the method of adjusted net assets and estimating the balance-sheet-based value of players compared to their market value. It covers a broader group of key value factors. The above considerations recommend the use of the multivariate valuation method in accordance with a research previous research (Markham, 2013; Morrow, 1996; Lozano and Gallego, 2011). The present study provides a framework for research in other contexts, to be adapted to the

characteristics of the latter. The paper's results answered a classic agency problem (Schubert, 2014) and delivered knowledge of how to include the interest of all the stakeholders in the valuation process. Therefore, the use of the multivariate valuation method should include key value factors identified in this paper. In addition, it is worth noting that, as long as the financial information contained in the financial statements is limited in use for a certain study, non-financial reporting and integrated reporting may deliver a wider range of information than mere financial data, to support the measurement of performance (Dumitru *et al.*, 2017).

The paper paid special attention to the complex debates on stakeholder theory and its influence on the measurement of value. The research procedure which was applied may be replicated in other sectors characterised by the need for sustainable stakeholder relationships, such as social enterprises or non-governmental organisations.

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Appendices

Indicators	Mean (N = 11)	Ruch Chorzów	Zagłębie Lubin	Górnik Zabrze	Ślask Wrocław	Korona Kielce	Zawisza Bydgoszcz	Legia Warszawa	Lech Poznań	Lechia Gdańsk	Wisła Kraków	Piast Gliwice
<i>Debt ratio</i>	208	155	10	272	499	206	171	90	78	301	463	46
(%)												
Max	-	202	15	352	1,033	289	225	95	105	353	588	61
Min	-	90	6	223	154	108	77	84	47	260	397	24
<i>Economic</i>	-5.2	-6.1	-14.3	-0.2	-9.6	-7.9	-0.6	-4.5	-3.1	-2.9	-5.5	-2.7
<i>value added</i>												
(mill. EUR)												
Max	-	-0.7	-1.9	0.0	-2.5	-1.5	0.1	-0.2	1.8	-0.2	1.3	0.0
Min	-	-2.8	-5.0	-0.1	-2.6	-2.4	-0.4	-1.9	-2.8	-1.5	-3.3	-1.7
<i>Share of</i>	25	9	7	14	34	13	50	22	35	41	26	26
<i>intangible</i>												
<i>assets (%)</i>												
Max	-	16	9	25	51	24	87	24	47	51	32	45
Min	-	0	3	7	24	4	6	20	27	33	22	8
<i>Ratio of</i>	86	105	51	96	72	101	67	52	65	55	79	208
<i>salaries to</i>												
<i>sales</i>												
<i>revenue (%)</i>												
Max	-	136	56	105	76	109	98	52	68	61	88	346
Min	-	69	41	90	67	89	41	52	60	49	73	91
<i>Ratio of</i>	54	57	47	55	53	55	53	41	45	47	49	91
<i>salaries to</i>												
<i>overall costs</i>												
(%)												
Max	-	61	47	57	57	56	57	46	47	53	51	95
Min	-	50	47	51	51	54	49	36	41	43	47	87
<i>Revenue to</i>	208	80	55	133	607	315	260	143	139	358	130	69
<i>assets ratio</i>												
(%)												
Max	-	96	62	160	1,161	373	362	152	152	427	157	145
Min	-	64	47	99	407	272	245	131	128	266	111	31

Source(s): Own elaboration based on data from financial statements

Table A1.
Average values of
chosen indicators from
three reporting periods
in the period 2010–
2014 with maximum
and minimum value
ranges

Influence of
stakeholders'
perception on
value

Table A2.
Bankruptcy risk
Altman and PAN-F
indicators, average
values from three
reporting periods in the
period 2010–
2014 ($n = 33$)

Indicators	Zagłębie Lubin	Piast Gliwice	Lech Poznań	Legia Warszawa	Ruch Chorzów	Zawisza Bydgoszcz	Korona Kielce	Górnik Zabrze	Lechia Gdańsk	Wisła Kraków	Śląsk Wrocław
Average of 3 reporting years EM score = $6.56(X1) + 3.26(X2) + 6.72(X3) + 1.05(X4) + 3.25$	9.6	-1.3	1.2	-5.2	-13.1	-23.5	-47.0	-30.2	-12.4	-41.0	-74.4
Average of 3 reporting years Z score (for private non-manufacturing companies) = $6.56(X1) + 3.26(X2) + 6.72(X3) + 1.05(X4)$	6.4	-4.6	-2.1	-8.5	-16.3	-26.8	-50.3	-33.5	-15.6	-44.3	-77.6
Insolvency risk		X	X	X	X	X	X	X	X	X	X
Uncertain risk	X										
Safe zone	-2.69	-13.66	-0.96	-0.69	-7.72	-12.90	-33.80	-16.70	-11.74	-20.52	-32.01
PAN-F indicator	X	X	X	X	X	X	X	X	X	X	X
Insolvency risk											
Safe zone											

Source(s): Own elaboration based on data from financial statements and [Kisielnička and Waszkowski \(2010\)](#)

CEE	Central and Eastern Europe
KPI	Key performance indicators
EVA	Economic value added
MVA	Market value added
SVA	Shareholders value added
CSR	Corporate social responsibility
EPL	English Premier League
FCF	Free cash flow
ROA	Return on assets
VAIC	Value added intellectual coefficient
UEFA	European Football Championships
Euro	
PAN-F	Discrimination indicator elaborated by the Polish Academy of Science
WACC	Weighted average cost of capital
IC	Intellectual capital
EM score	Emerging market score Altman formula for determining whether a company in emerging markets is headed for bankruptcy
Z score	The Altman Z-score formula for determining whether a company, notably in the manufacturing space, is headed for bankruptcy

Source(s): Own elaboration

Influence of stakeholders' perception on value

Table A3.
Explanation of the variables and abbreviations

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