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Managerial Ability, Players' Cultural Diversity, and Sporting and Economic Performance in English Soccer

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Abstract

We use a large homemade database on professional soccer in England to estimate the relevance of managerial ability on performance and the managerial skills in keeping up cultural diversity. The team manager faces a set of very complex tasks. Not only he is the head coach of the soccer team, thus influencing sporting performance, but he can also have an impact on performance, by improving economic efficiency or by limiting the organization innovation in order to foster the creation of organizational routines. The sporting competitive advantage translates into economic and financial performance; therefore the manager is a dominant voice in the financial viability of the club, too. We also measure the impact of cultural diversity: attendance appreciates home-grown and talented players, and dislikes cultural diversity.

Keywords: managerial capabilities, performance of soccer clubs, cultural diversity and xenophobia in sports

1. Introduction

Managerial ability is a source of value creation and organizational performance, and firms with superior managerial ability can realize superior performance advantage (Adner & Helfat, 2003; Hansen *et al.* 2004). We focus on the managerial endowment in professional soccer clubs in the English Premier League and in the English Championship League. An empirical study devoted to a professional soccer as a single industry is interesting for two reasons: i) clubs are organizations primarily composed of experts; ii) innovation is sought season after season; iii) the context is rich of cultural diversity. The soccer industry is an interesting point in case because sports teams have comparable characteristics and societal goals, they share the common factor market and general environment (Holcomb *et al.* 2009: 459), therefore inter-industry comparisons can be made at a micro level (Peteraf & Barney, 2003; Mahoney 1995). Resource productivity and performance can also be easily correlated to quality of the resources controlled within the club's boundaries. Our paper also belongs to the strategic management literature as far as contexts in strategy formation are concerned.

We concentrate on the role of the manager (we do not use capital letter), the head coach of a soccer club, who is responsible for the sporting performance and hence for all the aspects that concern the "production function" of the franchise. He is the head of the sporting team and supervises buying and selling players, hence a pivotal figure in resource bundling. He is also responsible for building and innovating capabilities in the team, for example by allowing home-grown players to rise to the first team, and in all the aspects that concern the well-being of the players, such as reducing their proneness to injuries and fastening their recover from forced rest period.

The sporting competitive advantage translates into economic and financial performance, therefore the manager is a dominant voice in the financial viability of the club, too. He is the protagonist in building the club's capabilities. He contributes to developing organizational capabilities, because he establishes organizational routines. He conducts the training, coordinates with the medical centre, establishes off-training days, decides whether players must retire in isolation to prepare for a match –a delicate decision, since it influences upon the sexual activity of the players and their private life. He is crucial in building up routines and therefore in developing organizational capabilities. Moreover, he supervises cross-functional integration among the administrative staff, medical staff,

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and the players. He is also responsible for higher-level capabilities to integrate lower-level capabilities (players) with other actors in the sporting arena, among which, we can list the media, the player's agent, competing clubs that offer to buy or sell players, the National teams and Federations which require players to participate to international country-based competitions such as the World Cup.

In the process of selecting resources, he is the crucial figure in deciding which player to buy or sell, he picks grass-roots players to play in the official team, and after hearing from the scouting department he decides to enlist promising athletes. Building a team is not only a matter of choosing the best players per position on the field, it is also a matter of choosing people that get along and play well together. The resources (the players) are barely imitable –because scarcely replicable– and transferable only if sold. Players can be loaned, and he must decide whether to do so, and a policy of alliances with other competing teams might help. Moreover, resources are durable to the extent that no injuries occur, and some players cannot play too much because more fragile. Therefore sporting competitive advantage is entirely based on the team (the mixture of players and the manager) and the medical staff.

We follow Lampel's (2001) definitions and scheme in tracking the core competencies of the firm, and we consider the club as a project-based firm aimed at winning the season or reaching an otherwise defined object -a certain level of performance, such as 4th place- which is renewed each year. Lampel discusses upon the fostering innovation in an environment such engineering-construction-procurement firms compete. He argues that the main difficulty is to balance efficiency and flexibility under conditions of diversity. We follow along these lines to sustain that the manager must show entrepreneurial, technical, evaluative, and relational competences to compete, innovate, and to conduct his own project-based endeavour - the club. In this context diversity must be considered as cultural diversity. He must build up the core competences in the club, by relying on tacit and codified knowledge, both in the profession and in the club. These concepts are well known and we abstain from dwelling on them, hence we just sketch the outline of a Manager's profile.

We think it is already clear how many qualities must a Manager bear and how similar these characteristics are to the Chairman of the Board and to the Chief Executive Officer of a Multinational company.

1.1 Managing Experts

The team is a collection expert: players are top experts in their field, highly paid and sought after. Players are an élite and must be treated accordingly, and leadership by the manager must be covert in the sense of Mintzberg (1998), who proposed the conductor of an orchestra as the archetypical covert leader. Even though it might sound paradoxical, leading a team of players is the same as leading a group of intellectuals (Quinn *et al.*, 1996).

The manager must be capable of managing experts and expertise. The manager has to figure out the way the team should play, the position in executing the tactics on the field. He must be a charismatic leader capable of transmitting enthusiasm, endowed with the ability to discuss with the group and to command sufficient argumentative skills to convince people to adopt a tactical scheme or even to accept a marginal role whenever deemed instrumental to the success of the team –sometimes even to accept not playing a game. The manager has to choose players not only according to their talent, but also on the ability to mix with each other and to adapt to a common denominator of standard behaviour, on-field and off-field. In dealing with experts the manager is not alone, he needs the support of a well-established group of executives in the club. A tenured manager in a club develops routines with those executives that should induce better performance. We predict:

H1: Bigger and more financial solid clubs show more stable and more tenured managers.

1.2 Managing Innovation

Each season is as if a new project for the club. The objectives are adjourned, often with the injection of new players to substitute others. The manager himself might be new to the club, too. The financial situation of the club or the property might have been changed. A disappointing past season might linger on and the relationship with the fans might be strained, or else big results might have risen expectations for the incoming season, therefore the manager has to find an equilibrium between what might be reasonably gained and the fans', the players', the shareholders' expectations. Players turnover, debutant home-grown players in the first team are innovations in production. Home-grown players are often well known, often locals, and usually supporters' favourites. We predict:

H2: Innovation in players from considerable player changes might cause stress in the camaraderie among players, blocking the formation of organizational routines, therefore worsening performance.

H3: The rise of home-grown players to the team will be well-accepted by the public at the stadium but could

(4)

affect performance.

1.3 Managing Cultural Diversity

Each club has a certain degree of cultural diversity. In a soccer club players come from all over the world, bringing along not only diverse cultures as far as their background and education is concerned, but also the very idea of the way soccer should be played. Therefore the manager has to collect these forces together and find a thread that unites the team. Managerial skills in keeping up with cultural diversity are very relevant in professional sports, where talent is not related to nationality.

Dealing with diverse cultures is very difficult, and even more so when chauvinism and national profiling is present in the game (not to say about racial issues, too), sometimes even by some supporters of the team or from opposing clubs. Hence, the manager must also be capable in isolating those supporters and ban them from the agreed-upon, commonly accepted rules in the community that build up the team. He must also calm down his own players not to react to provocation from opposing team's hooligans that inveigh against and curse. Not to forget that he must also be able to keep calm in front of such criminal behaviour.

H4: Cultural diversity has a positive effect on performance, whereas a chauvinism attendance might contrast non-native players.

2. Method

In order to test research hypothesis we consider two empirical models. In the first model we focus on team performance. We use the entire database (Premier League and Championship), composed of 53 teams for 5 years, from 2001/02 to 2005/06, a total of 265 observations. The first model is:

$$points_i = \beta_0 + \beta_1 dmanch_i + \beta_2 homegrown percentage_i + \beta_3 attendance_i + \beta_4 intensity of trading out_i + \beta_5 dump remier_i + \varepsilon_i$$
(1)

The dependent is a count variable (a non-negative integer) so we modelled it as Poisson-distributed. In order to account for simultaneity between points gained (*points*) and change of the manager (*dmanch*) we estimated it by two stage least squares.

The second model addresses cultural diversity by considering the Premier League only, 28 teams for 5 years (140 observation). We estimate a system of three equations ((2)-(3)-(4)) by seemingly unrelated regression (SUR), after Zellner (1962):

$$points_{i} = \beta_{0} + \beta_{1} dmanch_{i} + \beta_{2} wages and salaries costs_{i} + \beta_{3} homegrown percentage_{i} + \beta_{4} attendance_{i} + \beta_{5}$$

$$intensity of trading out i + \beta_{6} foreign pli + \varepsilon i \tag{2}$$

$$dmanch_{i} = \beta_{0} + \beta_{1} points_{i} + \beta_{2} margin_{i} + \beta_{3} intensity of trading out_{i} + \beta_{4} net transfer expenditure_{i} + \beta_{5} net funds debt_{i}$$

$$+\beta_{6} foreign pl_{i} + \beta_{7} homegrown percentage_{i} + \beta_{8} pretax profit loss_{i} + \beta_{9} net as sets liabilities_{i} + \varepsilon_{i} \tag{3}$$

$$attendance_{i} = \beta_{0} + \beta_{1} foreign pl_{i} + \beta_{2} dmanch_{i} + \beta_{3} points_{i} + \beta_{4} wages and salaries costs_{i} + \beta_{5}$$

For both models we apply a pooled estimator without considering individual or time-constant effect. The database is built up through different sources, both online and as printed documents. The main ones were the website of football statistics (www.soccerbase.com), and the Deloitte Annual Review of Football Finance. Regarding the latter, we worked on the 2003 to 2007 editions.

 $homegrownpercentage_i + \beta_6 intensity of trading out_i + \varepsilon_i$

The firm performance is measured by the variable *points*. It consists of the total number of points collected by the team in each season. *dmanch* is a dummy variable accounting for managerial change. It takes the value 1 if the manager has been changed in the season, 0 otherwise. Change in the manager should have a negative effect on points, but the change might be the result of a negative stream of results, therefore we treat the two variables as endogenous (a simultaneity problem with the dependent variable). This forces us to use the two stages estimation in the first model. *homegrownpercentage* measures the deployment of home-grown players by dividing the number of matches in which they appear in the starting roster, on the total possible caps per season (obtained by multiplying the total number of matches per season for the number of players that start the match). A home-grown in the starting roster is a strong signal that the team managerial board is committed to fully exploiting internally developed resources. *attendance* is the people who attended home matches during the season. *intensityoftradinginout* is the algebraic sum of players acquired and sold during the transfer market period, a proxy for organization innovation. *dumpremier* is a dummy variable accounting for the competitive environment characteristics. It takes the value 1 if the team plays in the Premier League and 0 if it plays in the

Championship. We consider the Premier a more competitive environment.

Other variables used in the SUR model are *wageandsalariescost*, the pay in the fiscal year for wages to players in the roster, a proxy for talent, *foreignpl*, a variable built up by summing up the total number of foreign players that played in a specific season (http://en.wikipedia.org/wiki/List_of_foreign_Premier_League_players). It is a proxy for cultural diversity and it is calculated only for premier league teams. Note that there are also financial and economic variables: *margin* is the difference between turnover and wages. *nettransferexpenditure* consider the net financial result of players trading during the transfer period and measures managerial efficiency. Other, self-explanatory managerial variables are *netfundsdebt*, *netassetsliabilities* and *pretaxprofitloss*.

3. Results

The first model (two stage estimation) is reported in Tab. 1; standard errors are corrected for heteroscedasticity. This is a two stage regression as suggested by Cameron and Trivedi (2009, section 17.5.1), wherein in the first stage we regressed *dmanch* on the list of the other variables and the change in manager the preceding season (that acts as an instrumental variable). In the second stage the residuals from the first stage (*dmanchhat*) are included as a regressor.

Table 1. Performance in the Premier and Championship Leagues as determined by the manager, the dependent variable is *points*

Regressors	Coefficients
dmanch	1.094202
	(1.153556)
margin	0.0115824 *
	(0.0057886)
homegrownpercentage	- 1.043454 *
	(0.4684013)
attendance	-0.0003882
	(0.0085333)
intensityoftradingout	-0.041864
	(0.033603)
dumpremier	- 0.6451248 ***
	(0.0810036)
dmanchhat	- 1.218941 ***
	(1.150176)
constant	4.624632 ***
	(0.3489234)
	Observations: 158
	Wald $\chi^2(7) = 174.52$,
	p-value= 0.0000
	Pseudo R ² =0.2164

Two stage regression, *dmanchhat* are residuals from the first stage. ***=significant at 1%, **=significant at 5%, *=significant at 10%

The statistically significant variables are: *margin* (at 5% level), *homegrownpercentage* (5%) and *dumpremier* (.1%) All the coefficients can be interpreted as a semi elasticity. An increase of one pound sterling in the difference between turnover and wages (*margin*) is associated with a 1,1% increase in points gained. It can be considered a measure of the impact of managerial efficiency on performance. The other two significant variables have a negative impact on teams performance. The exploitation of internal resources like home-grown players, that partially accounts managerial innovation, does not result in a positive impact on performance as hypothesized in the second part of *H3*. Premier league can be considered a more competitive environment: to a team playing in the premier (*dumpremier*=1) is associated a 64% decrease in points gained.

Our results reject hypothesis *H2*, as far as organization innovation is concerned, as measured by the total numbers of players changed (*intensityoftradinginout*) is not significant for team performance. Management tenure (*dmanch*) and market size (*attendance*) are non significant, so manager can have an impact on performance only by improving economic efficiency (*margin*) or limiting the organization innovation in order to

foster the creation of organizational routines.

The SUR model is used to analyze cultural diversity, economic determinants of manager tenure, and home-grown players appeal for team demand (hypotheses *H1*, *H3*, and *H4*), see Tab. 2. The database contains only premier league teams because we are interested in cultural diversity effect measured by the variable *foreignpl*. Errors are corrected for heteroscedasticity.

Table 2. Cultural diversity and the manager in the Premier League

Equation		Bootstrap	Standard
for:	regressors	Coefficient	Errors
points	-		
-	dmanch	-9.11738**	3.588623
	wagesalariescosts	0.476111***	0.149883
	homegrownpercentage	3.265402	13.83664
	attendance	0.152754	0.276037
	intensityoftradingout	-0.38611*	0.220228
	foreignpl	0.599919	0.380288
	constant	27.32348***	7.665537
	$R^2=0.7199$	$\chi^2 = 253.90$	
	RMSE=8.535647	(0.0000)	
dmanch			
	points	-0.00782	0.005936
	margin	0.005506	0.004267
	intensityoftradingout	0.032519***	0.010429
	nettransferexpenditure	-0.00014	0.000345
	netfundsdebt	-0.00043	0.000278
	foreignpl	0.006791	0.012314
	homegrownpercentage	1.077705*	0.551392
	pretaxprofitloss	-5.9E-05	0.000137
	netassetsliabilities	-0.00102	0.000773
	constant	-0.07947	0.28815
	$R^2=0.2575$	$\chi^2 = 37.18$	
	RMSE= .351288	(0.0000)	
attendance			
	foreignpl	-0.95575***	0.279356
	dmanch	0.750895	3.263077
	points	0.09342	0.167227
	wagesalariescosts	0.322518***	0.114054
	homegrownpercentage	34.34929***	10.29249
	intensityoftradingout	-0.06985	0.192669
	constant	23.82331***	5.383164
	$R^2 = 0.6562$	$\chi^2 = 183.37$	
	RMSE= 6.672897	(0.0000)	

Seemingly unrelated regression (SUR), 95 observations, bootstrap standard errors. ***=significant at 1%, **=significant at 5%, *=significant at 10%

In the first equation concerns sporting performance. We observe a negative effect of manager change (dmanch) and organization innovation (intensityoftradinginout), so that hypothesis H2 is not rejected. Increasing talent by acquiring more expensive players results in a radical improvement in performance. The second equation concerns manager tenure. The dependent variable is a dummy, hence it can be given a probabilistic interpretation. We observe that organization innovation from changing players (intensityoftradinginout) and home-grown players deployment is associated with an increase in the probability of a change. As the economic and financial variables are not significant we conclude that hypothesis H1 is rejected. The third equation measures a performance in marketing. Demand appreciates both home-grown and talented players, while cultural diversity (foreignpl) has a negative impact (as hypothesized).

The SUR estimation allows us to test the possibility of running single equation ordinary least squares (OLS), instead of the system of equations. Note that the correlation of residuals is 0.1173 for *dmanch* and *points*, -0.0027 between *attendance* and *dmanch*, -0.0597 between *attendance* and *points*. The Breusch-Pagan test of independence gives $\chi^2(3)=1.647$, it does not reject the null hypothesis of independence between the equations (p-value: 0.6487). The three equations can be estimated by OLS.

4. Discussion

Our case-study follows Holcomb *et al.* (2009) in using sports as a setting to measure managerial ability as a source of performance and value creation. As they point out (2009, 480), professional sports have certain peculiarities that suggest caution in speculating about generalizing these findings. However, we find particularly attractive the possibility of directly testing the acceptance of cultural diversity within the team and the possibility of directly comparing the performance to acceptance in the attendance at the stadium. Comparisons of such a scale are not possible in other industrial settings. Our results suggest that, contrary to our expectation, financial and economic situation do not affect manager tenure while organization innovation has a negative impact on performance in a context where organizational routines could play a determinant role. Internal resources exploitation has a positive impact from marketing perspective but can reduce team performance because of loss of cohesion and experience in the team. Cultural diversity has a negative impact from a marketing perspective. We considered attendance at stadium only, which is around one third of team revenues. Evidently, prejudices go against self-interest but it is reasonable to hypothesizes that the inclusion of TV rights revenues as a proxy for world-wide demand should change the picture.

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