PROMOTING FIRM INNOVATIVENESS THROUGH SERVANT

LEADERSHIP AND CORPORATE SOCIAL RESPONSIBILITY TO

EMPLOYEES

Abstract

Purpose. This paper focus on the relationship between servant leadership and firm innovativeness, as well as the underlying mechanisms that explain this relationship. More concretely, we analyse the relationship between servant leadership, firm innovativeness and corporate social responsibility to employees.

Design/methodology/approach. A total of 285 Spanish firms took part in the study and 570 questionnaires were gathered. Structural equations were used to validate the proposed hypotheses.

Findings. Results suggest that servant leadership has a positive relationship with firm innovativeness and this relationship is fully mediated by corporate social responsibility to employees.

Research limitations/implications. HR managers have an overall view of their company and of the behaviour of other leaders. However, future research should also consider employees perceptions. The present study is cross-sectional and it would be interesting to study the development of the interaction between leaders and followers, which calls for longitudinal and multilevel studies.

Practical implications. According to our results, managers could foster firm innovativeness if they select and promote leaders who display the different leadership behaviours related to servant leadership: empowerment, servitude, accountability,

courage, authenticity, humility and stewardship. Moreover, training programmes should

also foster these behaviours.

Originality/value. Few empirical studies analyse the relationship between servant

leadership and innovation. The main contribution of the present research is to further the

current knowledge of this relationship by disentangling the mediating role of corporate

social responsibility to employees.

Keywords: servant leadership; corporate social responsibility; CSR; innovativeness;

corporate social responsibility to employees

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1. Introduction

Firm innovativeness is vital to firm survival, success and competitive advantage (Khazanchi, 2007; Varadarajan, 2009). Innovativeness or innovation capacity is considered as the openness of an organisation to new ideas, new ways of doing things, creativity, etc., which gives the organisation the chance to be the first to market new products and services (Calantone et al., 2002). However, the pursuit of firm innovativeness can be challenging and entails a series of costs. In this sense, firms differ in their degree of innovativeness because of the tension between the need to be innovative and the costs involved in making innovations happen (Prasad & Junni, 2017). Some scholars have recently explored the reasons why some firms are more innovative than others and have found that firm innovativeness is linked to organisational and managerial determinants (e.g. Atuahene-Gima, 2003; Prasad & Martens, 2015).

Leadership style is one of the most important individual factors that promote firm innovation (Aragón-Correa et al., 2007; Mumford, 2002). Leaders can take decisions to introduce new ideas into the organisation, set specific goals and encourage innovation among their subordinates (Aragón-Correa et al., 2007). They can also create an environment in which employees feel protected, take risks and are therefore more inclined to innovate (Nutt, 2002). According to Topcu (2015), managers should be encouraged to use leadership methods and create a convenient organisational climate which triggers employees' innovative behaviours.

Sendjaya et al. (2008: 402) summarised some chronic problems related to organisational leaders, such as bullying leadership, abuse of power, unethical practices, toxic emotions, social isolation and alienation in the workplace, and the violation of

employees' psychological well-being and work-life balance. In contrast, there is an increasing demand for organisations to be people-oriented and managed ethically, achieving their goals from a moral point of view (Rodríguez-Carvajal et al., 2014). Van Dierendonck (2011) stated that, when studying leadership, more emphasis needs to be placed on social responsibility in order to facilitate the organisation's success. This shift in the study of leadership has been reflected in an increased interest in servant leadership, as it highlights the followers' interests and morality (Peterson et al., 2012). In this context, servant leadership emerges as a leadership approach that is more relevant and timely than other value-laden leadership approaches (Sendjaya et al., 2008). Furthermore, Williams et al. (2017) pointed out that the number of empirical studies conducted using the servant leadership construct is insufficient.

Some authors have focused on the study of the antecedents of servant leadership. For example, Barbuto et al. (2014) found a positive relationship between emotional intelligence and servant leadership, and Flynn et al. (2016) studied the influence of leaders' core self-evaluations on this leadership style. Another stream of research has identified the relationship between servant leadership and both individual and organisational outcomes, such as creative behaviours, job satisfaction and organisational commitment, among others (e.g. Hunter et al., 2013).

According to Williams et al. (2017), servant leadership is a suitable concept to promote creativity in the current context of knowledge and innovative organisations, as it serves the needs of the followers in an authentic and empowering manner. Van Dierendonck (2011) proposed that both innovation and employee well-being should be given high priority and so leadership that is rooted in ethical and caring behaviours, such as servant leadership, becomes of great importance. Gilley et al. (2011) described servant

leaders as equal partners who, through a participatory approach, work alongside employees to promote individual and organisational success. Recent studies have found a significant relationship between servant leadership and innovation (e.g. Yang et al., 2017; Yoshida, 2014). However, to the best of our knowledge, little research has explored the underlying mechanisms that explain this relationship. Panaccio et al. (2015) stated that previous research did not clarify the psychological mechanisms and the boundary conditions in which servant leadership promotes different outcomes. Previous studies identified that the influence of servant leadership on different outcomes, including creativity, may be indirect. It is therefore necessary to study the mediating mechanisms in the relationship between servant leadership and different outcomes (Liden et al., 2014; Yang et al., 2017). Servant leadership places emphasis on the personal growth of followers and adds the component of social responsibility to transformational leadership (Graham, 1991).

Corporate social responsibility (CSR) offers a specific and focused context in which to explore leader impacts (Christensen, 2014: 175). However, the two disciplines have rarely been combined in the academic field, despite the acknowledged importance of studying the antecedents and consequences of CSR, focusing on how leaders affect this activity. Among the new leadership styles, servant leadership is the most appropriate style to move theory about CSR forward (Christensen, 2014).

Additionally, CSR is positively related to innovation (Mishra, 2017). Bammens (2016), however, stated that the study of how social aspects of the work context, which include promoting employee well-being, influence innovation remains underdeveloped. Chen et al. (2016b) pointed out that little attention has been paid to how employee-friendly workplaces foster innovation. In addition, Chen et al. (2016b) asserted that,

despite this positive relationship, CSR comprises numerous dimensions that must be studied separately. It is unclear whether all dimensions are beneficial for innovation, so combining several dimensions may give an incomplete understanding of how innovation is fostered within firms. Therefore, these authors recommend focusing on a specific dimension of CSR when studying its influence on innovation. In this paper, we focus on CSR to employees (CSRE).

Based on the above lines, the conceptual model shown in Figure 1 is proposed. The contention of our model is that the effect of the servant leader on innovativeness is mediated by CSRE. Accordingly, three hypotheses representing (a) the relationship between servant leadership and CSRE, (b) the relationship between CSRE and innovativeness, and (c) the relationship between servant leadership, CSRE and innovativeness are developed and tested.

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In the following sections, a review of the literature about servant leadership and CSRE is conducted. Considering previous research, relationships among these constructs and firm innovativeness are also established. Subsequently, details of the methodology used to analyse the proposed hypothesis are provided. The study finishes with the presentation of results, conclusions, suggestions for future research and evaluation of the limitations of the present research.

2. Literature review and hypotheses

2.1. Servant leadership

Servant leadership is an ethical leadership style that focuses on people, introduces a moral component and prioritises followers' needs (Van Dierendonck, 2011). It puts the interests of the followers before those of the organisation, and is focused on employees and their welfare, cares about them and seeks their development (Choudhary et al., 2013; Rodríguez-Carvajal et al., 2014), which together help to fully develop their potential (Van Dierendonck and Patterson, 2015). Servant leadership emphasises that leaders not only have a responsibility in the success of the organisation but also a moral obligation with different stakeholders, including society in general (Peterson et al., 2012; Williams et al., 2017). In fact, the main difference between servant leadership and other leadership styles, such as transformational, is that these leaders prioritise followers' needs over organisational goals (Van Dierendonck, 2011). Servant leaders encourage followers to engage in moral thinking (Peterson et al., 2012). When leaders care about followers' interests, they are motivated to act in the same way and go beyond self-interest. Being a servant leader is a conscious decision (Van Dierendonck and Patterson, 2015).

There are different scales to measure servant leadership, which include diverse dimensions (e.g. Sendjaya et al., 2008; Van Dierendonck and Nuijten, 2011). Rodríguez-Carvajal et al. (2014) validated Van Dierendonck and Nuijten's (2011) scale in Spain. This scale is made up of the following dimensions: empowerment, accountability, standing back, humility, authenticity, courage, forgiveness (acceptance of others) and stewardship. The different dimensions that make up servant leadership serve to define this leadership style in a broad sense, although all of them may not have the same importance (Van Dierendonck & Patterson, 2015; Van Dierendonck and Nuijten, 2011).

According to Rodríguez-Carvajal et al. (2014), empowerment allows employees to have more power and control over their own work; accountability implies that workers are responsible for the consequences and outcomes of their decisions; servitude is the ability to remain in the background, allowing others to take compliments; humility is related to the capability to properly evaluate one's own abilities and achievements in a reasonable manner, being aware of the fact that nobody is infallible and may make mistakes; stewardship looks beyond self-interest and is concerned about the consequences of entrepreneurial activity; forgiveness refers to the ability of leaders to empathise with their employees and understand their circumstances, to be able to forgive their disputes and mistakes. Van Dierendonck (2011) stated that authenticity is to be oneself, expressing real feelings and opinions, and prioritising what anyone is as a person instead of as a professional; finally, courage is related to the willingness to take risks, searching for alternatives to problems and questioning old patterns.

2.2. CSR to employees

The first references to the concept of CSR emerged in the 1950s (Bowen, 1953) and since then the concept has been developed extensively. It has been defined in different ways and it is difficult to find a commonly accepted definition. CSR is a voluntary contribution of business to achieve a fairer and more sustainable economy, society and environment (Delgado and Gallardo-Vázquez, 2016), going beyond compliance with laws (Newman et al., 2016) and promoting a positive impact on the stakeholders (Turker, 2009). Turker (2009) defined CSR as "corporate behaviours that aim to affect stakeholders positively and that go beyond [the organisation's] economic interest". Although CSR is a multifaceted construct, previous research did not pay much attention

to distinguishing types of CSR (Mishra and Modi, 2016). Different authors propose different dimensions or types of CSR, but all these classifications have in common a dimension referring to the employees. For example, Mishra and Modi (2016) suggested six CSR types: environment-, product-, diversity-, corporate governance-, employee- and community-based philanthropic efforts. Turker (2009) conceptualised CSR with four dimensions: responsibility to social and non-social stakeholders (society, natural environment, future generations, NGOs), employees, customers and government.

Employees are especially important in the social dimension of CSR (Delgado and Gallardo-Vázquez, 2016), and previous research has highlighted the relevance of taking care of these stakeholders due to their essential role in the success of organisations. For instance, Rodrigo and Arenas (2008) stated that one stakeholder that must always be considered in CSR is employees, although it is a group that has received little attention compared to other stakeholders.

As in the case of CSR, neither is there a single definition of CSRE (Celma et al., 2014). In the literature we can find related or similar concepts such as responsible human resource management or moral management of employees (Celma et al., 2014; Newman et al., 2016). CSRE improves employees' welfare and addresses their concerns (Newman et al., 2016). According to Turker (2009), CSRE involves policies that encourage employees to develop their skills and careers, management concerned with employees' needs and wants, implementation of flexible policies that provide a good work and life balance for their employees, taking decisions that are usually fair with the employees, and providing support to employees who want to acquire additional education.

Similarly, Celma et al. (2014) stated that CSR in human resource management tries to strengthen job quality, through motivated and trained employees who may develop their skills and achieve a work-life balance. These programmes are not limited to salaries or bonuses but also comprise policies aimed at treating employees better, including flexible schedules or improved work conditions (Chen et al., 2016). Socially responsible human resource management strengthens employees' capacities through education, training and safety practices (Delgado and Gallardo-Vázquez, 2016). Flammer and Luo (2017) stated that employee-related CSR programmes align the incentives between employees and the firm, and include investments in work-life balance, health and safety, and employee involvement. These authors stated that these programmes, compared to monetary incentives, are difficult to imitate. Therefore they can be used as a tool to motivate employees, decrease the attractiveness of other jobs, attract a higherquality workforce, retain talented employees and improve their engagement, fuel employees' perception of their jobs, foster employees' engagement and commitment to organisational values and practices and increase job productivity or reduce the possibility of adverse behaviour. Mishra and Modi (2016) consider that employee-based CSR is reflected in firm support to unions and recognition of employees' needs (for instance, providing better wages and retirement benefits) and it may help to retain talented workers.

2.3. Servant leadership and CSR to employees

One of the highest priorities of servant leaders is service to others, either inside or outside the organisation, followers' growth being a priority goal (Williams et al., 2017). Employee well-being is essential for servant leaders (Van Dierendonck, 2011).

Incorporating ethical principles from corporate social responsibility into human resources management practices allows for a clearer focus on worker well-being (Celma, 2014).

Servant leadership emphasises sustainability and corporate social responsibility by focusing on creating a great place to work rather than on achieving high returns on investments (Van Dierendonck, 2011). Leadership qualities that are likely to support corporate responsible behaviour within organisations are related to servant leadership patterns, such as recognising that business does have responsibilities to the broader society, being open, honest and trustworthy, maintaining an open mind, etc. These leaders respect employees at all levels, are committed to employees' growth and development, respect diversity and equal opportunities for all, and so forth (Hind, 2009).

All the above considerations lead us to formulate our first hypothesis:

H1: Servant leadership has a positive effect on corporate social responsibility to employees

2.4. CSR to employees and firm innovativeness

CSRE plays a salient role in nurturing a corporate culture that is perceived to focus on employee development and innovation, among other variables (Anthony & Hong, 2014). Firms that implement employee-friendly policies and foster satisfying workplaces invest more in innovation and achieve greater innovative success, thereby strengthening the relationship between firm and subordinates, enhancing employees' job satisfaction, improving trust in management, experimentation or tolerance of failure (Chen et al., 2016b). Chen et al. (2016) found that better employee treatment schemes are associated with both a higher quantity and quality of innovation.

CSRE entails supporting workers who want to acquire additional education, encouraging employees to develop their skills and careers, implementing flexible policies to provide a good work and life balance, supporting employees' needs and wants, and taking decisions related to employees which are usually fair (Turker, 2009). These features have been positively related to the development of innovation capability within organisations. For instance, investing in workers' skills through training programmes boosts innovation (González, 2016), and a good work-life balance enhances learning and innovation processes within and among firms (James, 2014). Therefore, we pose the second hypothesis of the study:

H2: CSRE has a positive effect on firm innovativeness

2.5. Servant leadership and firm innovativeness: The mediation role of CSRE

Previous research has evidenced a positive relationship between servant leadership and both creativity and innovation (e.g. Yang, 2017; Yoshida, 2014). According to Williams et al. (2017), servant leaders are focused on serving the needs of followers in such an authentic and empowering manner that this leadership style is well suited to knowledge-rich and innovation-intensive organisations. Additionally, the different dimensions that make up servant leadership are also related to innovation. For instance, courage is essential for innovation and creativity as it challenges conventional models of working behaviours (Van Dierendonck & Nuijten, 2011). Empowerment is a means for leaders to promote change in their organisations (Conger & Kanungo, 1988), thereby making employees more likely to be motivated to be creative and suggest new ideas that may result in more change and innovation (Seibert, 2011). Through forgiveness it is possible to create a climate that reinforces interpersonal relationships,

communication, risk-taking, creativity and innovation (Caldwell & Dixon, 2010; Stone, 2002). Stewardship is positively related to creativity (Kuppelweiser, 2011), as concern for sustainability and social problems demands more innovation (Shevchenko, 2016). Finally, authentic leaders enhance creativity and, in turn, innovation (Müceldili et al., 2013).

Leadership is essential for employees' engagement and their innovation (Van Dierendonck & Nuijten, 2011). Servant leaders support their subordinates and are committed to their growth and development, thus facilitating a context where employees feel safe to use their knowledge and are focused on continuous development and learning (Van Dierendonck, 2011), which may promote innovation. Therefore, this allows us to formulate our last hypothesis:

H3: The relationship between servant leadership and firm innovativeness is mediated by CSRE

3. Research methodology

3.1. Data collection

The study focuses on a population of 11,594 Spanish firms from a list provided by the Spanish Ministry of Economy and Competitiveness. The fieldwork was carried out in 2015 and data were gathered by telephone interviews. 285 companies participated satisfactorily in the study. Therefore, assuming a 95% confidence level, sampling error is +/- 5.7%. In order to prevent common method variance, the human resource manager and the general manager each answered different questionnaires (Chang et al., 2010). The former answered questions related to servant leadership and the latter responded on the

items dealing with CSRE and firm innovativeness. In sum, 570 questionnaires were collected. All the items were measured on a seven-point Likert scale reflecting the degree of agreement or disagreement with the item.

3.2. Measurement instruments

3.2.1. Servant leadership

This scale was based on the work by Rodríguez-Carvajal et al. (2014), who adapted the Servant Leadership Survey by Van Dierendonck and Nuijten (2011) to Spanish speakers. Rodríguez-Carvajal et al. (2014) identified eight dimensions for the servant leadership measure: empowerment, responsibility, standing back, humility, authenticity, courage, forgiveness and stewardship. These authors found that forgiveness factor loadings were the lowest in the case of Spain and Mexico. Since a similar pattern was found in studies in Italy (Bobbio et al., 2012) and The Netherlands (Van Dierendonck and Nuijten, 2011), Rodríguez-Carvajal (2014) considered this dimension should be reconsidered. In our research, this dimension was initially included in the questionnaire but on conducting CFA analysis it was not found to be significant and was thus removed from the subsequent analyses used to test the hypothesised model. Table 1 shows the items that were included in this scale. Cronbach's alpha for each subdimension varies from 0.77 to 0.95, showing an average value of 0.86.

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3.2.2. Corporate social responsibility to employees

Turker (2009) developed a measure of CSR reflecting the responsibilities of a business to various stakeholders and the results provided a four-dimensional structure of CSR, including CSR to social and non-social stakeholders, employees, customers and government. In this research we adopted the subscale CSR to employees, which was measured by Turker (2009) using a five-item scale comprised of the following items: (1) Our company policies encourage employees to develop their skills and careers, (2) The management of our company is primarily concerned with employees' needs and wants, (3) Our company implements flexible policies to provide a good work and life balance for its employees, (4) The managerial decisions related to employees are usually fair, and (5) Our company supports employees who want to acquire additional education. Cronbach's alpha for this measure is 0.91.

3.2.3. Firm innovativeness

The measure of innovativeness is based on Calantone et al. (2002) and yields a Cronbach's alpha value of 0.85. This scale is composed of four items: (1) Our company frequently tries out new ideas, (2) Our company seeks out new ways of doing things, (3) Our company is creative in its methods of operation, and (4) Our company is often the first to market new products and services.

3.3. Control variables

Based on previous research (e.g. Beugelsdijk, 2008; Cabello-Medina, 2011), annual turnover, number of employees, export intensity and age of the company (measured in years since foundation) have been used as control variables because they

may be related to firm innovation. More specifically, large firms may have access to more resources, which affects their ability to innovate, and therefore annual turnover and number of employees were used to control for firm size. In addition, the age of the firm was also included to control for any advantages associated with increased time for the evolution or adoption of HRM practices (Guthrie, 2001).

3.4. Analyses

Structural equations and the statistical software AMOS 23 were used to empirically validate the conceptual model depicted in Figure 1. This software was chosen because it allows the use of bootstrapping to test the significance of the proposed indirect effect. Descriptive statistics and psychometric properties of the measurement scales were assessed using SPSS 23.

4. Results

4.1. Descriptive statistics and psychometric properties of the measurement scales

Table 2 summarises means, standard deviations and factor correlations of the constructs involved in the study.

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The psychometric properties of the measurement scales were evaluated by following accepted practices in the literature (Anderson & Gerbing, 1988), namely, by studying their dimensionality, reliability, and content, convergent and discriminant validity.

In the case of the servant leadership construct, we tested the fit of the second-order factor model (Fig. 2) to support the proposed multidimensionality of this concept, with acceptable results (Chi square (df) = 729.59 (313); p-value = 0.00; Chi-square/df = 2.33; NFI = 0.870; NNFI = 0.911; CFI = 0.921; RMSEA = 0.068).

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Regarding the structure of the constructs, in addition to Confirmatory Factor Analyses (CFA), we also followed the more commonly used approach (advocated by Anderson & Gerbing, 1988) of assessing a full measurement model that include all the variables (Chi square (df) = 1062.24 (580); p = 0.00; NFI = 0.855; NNFI = 0.922; CFI = 0.928; RMSEA = 0.054). Moreover, all the standardised estimates were significant and in the expected direction.

The results of the reliability analysis (Table 3) were also satisfactory. Cronbach's alpha coefficient and compound reliability showed a minimum value of 0.77, therefore above the recommended cut-off values of 0.7 (Nunnally, 1978). Average variance extracted was in all cases higher than the recommended value of 0.5, suggesting an acceptable reliability.

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The procedure followed to select the measurement scales supports content validity. All the scales used in the study were grounded in the academic literature. The servant leadership scale was based on a previous study by Rodríguez-Carvajal (2014). CSRE was measured using the five-item scale proposed by Turker (2009). Finally, the measure of innovativeness was based on Calantone (2002).

Servant leadership, CSRE and firm innovativeness CFA analyses showed that all factor loadings were significant and presented a value for NFI higher than 0.9, which suggests strong convergent validity.

Data also met the requirements for discriminant validity, since the square root of the average variance extracted (ranging from 0.76 to 0.82) was greater than the construct correlations (whose maximum value is 0.72).

As previously explained, the influence of common method variance was tackled in the questionnaire design stage (Chang et al., 2010) by asking the human resource manager about the independent variable (servant leadership) and the general manager about the dependent variables (CSRE and firm innovativeness). In addition, two other expost analyses were performed: Harman's single factor test and common latent factor technique (CLF). Regarding Harman's test, all the variables were merged into one factor and results showed poor fit (Chi square (df) = 4,178.09 (594); p = 0.00; NFI = 0.429; NNFI = 0.432; CFI = 0.464; RMSEA = 0.146), which suggested that common method bias was not a problem in this research. The common latent factor technique (e.g. Johnson et al., 2011) involves the introduction of a new latent variable in such a way that all the

manifest variables are related to it. This technique suggests that there is no significant common method bias in these data, since the calculated variance (19%) is below 50%.

4.2. Testing the research hypotheses

Figures 3 and 4 show the causal model we tested and include standardised parameter values for the various linkages. The overall fit statistics of the mediation causal model were good (chi-square (df): 1204.09 (716); p-value: 0.000; chi-square/df: 1.68; NFI: 0.853; NNFI: 0.928; CFI: 0.934; RMSEA: 0.049). Although the p-value is below the recommended value, all other indicators of global fit are good, so we conclude that the global fit of this model is acceptable.

The standardised estimates were significant and in the expected direction, except for the control variables (annual turnover, number of employees, firm age and export intensity), which were non-significant.

Results show that the previous direct relationship between servant leadership and firm innovativeness decreased (and became non-significant) when the mediator, CSRE, was included. Apart from that, the indirect effect model shown in Figure 4 points to (1) a positive relationship between servant leadership and CSRE, and (2) a positive relationship between CSRE and firm innovativeness. In addition, the mediated model explains more variance than the one resulting from the model without a mediator (6% vs. 51%).

In order to confirm that the indirect effect is significant, a bootstrap analysis was performed (MacKinnon et al., 2012). The estimated indirect effect of servant leadership on firm innovativeness is 0.222. The 95% bias-corrected confidence intervals for the indirect effect are between 0.107 and 0.349, with a p-value of 0.001 for the two-tailed

significance test. Thus, the estimated indirect effect is significantly different from zero and the null hypothesis of no mediation effect can be rejected. Consequently, the effects of servant leadership on firm innovativeness are fully mediated by CSRE.

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5. Discussion

From a theoretical point of view, our results provide evidence of the importance of servant leadership in promoting corporate social responsibility to employees, which in turn fosters firm innovativeness.

This study proposes the following implications to help managers to increase firm innovativeness. Managers interested in increasing firm innovativeness within organisations should focus on the different leadership behaviours related to servant leadership: empowerment, servitude, accountability, courage, authenticity, humility and stewardship. Specifically, they should pay more attention to selecting people characterised by these dimensions and capable of extending their positive attitude to the rest of the employees. Moreover, they should focus training and promotion in accordance with these dimensions.

According to our results, servant leadership may facilitate employee-based CSR actions, which, in addition to having an impact on the company's ability to innovate, have also been shown to influence a greater sense of belonging, higher levels of trust and commitment, and increased participation of employees or job satisfaction. Therefore, promoting CSR to employees might be a way to improve the firm's reputation and, thus, not only retain but also attract talented people.

Specific methodological limitations must be recognised in the present study. First, we administered the questionnaire only to managers (CEOs and HR managers), and therefore leaders estimate their own leadership behaviour. Although there are other studies that follow the same approach (e.g. Garber et al., 2009), future research should collect data taking into account other stakeholders, mainly employees. The present study is cross-sectional and it would be interesting to study the development of the interaction between leaders and followers, which calls for longitudinal and multilevel studies. Apart from overcoming these limitations, further research could also expand upon the results of this paper by considering the influence of servant leadership on different types of innovation (e.g. radical/incremental) or different phases of the innovation process (e.g. idea-generation, idea-promotion, idea-realisation and implementation stages). In addition, a combination of objective (such as share of new products and patents) and subjective (managerial/employee) measures of innovation would also be advisable.

Furthermore, future research should be developed in other cultural contexts, since servant leadership or employee-based CSR is more likely to occur in some countries than others, depending on their orientation towards people, a greater or lesser power distance, as well as different legislation in labour matters.

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Tables

Table 1. Servant leadership measure (Based on Rodríguez-Carvajal, 2014)

Empory	verment
EMP1	The leaders of this company give the information that people need to be able to do their job well.
EMP2	The leaders of this company encourage people to use their skills and knowledge.
EMP3	Thanks to the leaders of this company, people have been able to develop more as professionals.
EMP4	The leaders of this company encourage their team to develop new ideas.
EMP5	The leaders of this company give the authority that people need to make decisions that facilitate
	their work.
EMP6	The leaders of this company try to give support to people to find their own solutions instead of
	telling them directly what they should do.
EMP7	The leaders of this company give many opportunities to people to develop new skills.
Servitue	de
SER1	The leaders of this company work 'behind the scenes' and let others take praise.
SER2	The leaders of this company do not seek any recognition or reward in the things they do for
	others.
SER3	The leaders of this company rejoice more for the good performance of others than for their own.
Accoun	tability
ACC1	The leaders of this company make people responsible for the work they carry out.
ACC2	The people of this company are responsible for its performance (thanks to the leaders of this
	company).
ACC3	The leaders of this company make people responsible for how their work is organized.
Courag	
COU1	The leaders of this company take risks even when they are not sure if they have the support of
0001	their supervisors.
COU2	The leaders of this company take risks if necessary to do what they believe should be done.
A4l4	
Authent	
AUT1	The leaders of this company show their limitations and weaknesses.
AUT2	The leaders of this company are moved by the things that happen around them.
AUT3	The leaders of this company are willing to express their feelings even if they lead to undesirable
AUT4	consequences. The leaders of this company show their true feelings to their employees.
11011	The reduction of this company one is the time to the company one is the company of the company o
Humilit	
HUM1	The leaders of this company learn from criticism.
HUM2	The leaders of this company try to learn from criticism from others, including their own
	supervisors.
HUM3	The leaders of this company admit their mistakes to others, including their own supervisors.
HUM4	The leaders of this company learn from those who think differently.
HUM5	If people express criticism openly, the leaders of this company try to learn from it.
Stoward	lehin
Steward STE1	The leaders of this company emphasize the importance of paying attention to the common good.
STE2	The leaders of this company emphasize the importance of paying attention to the common good. The leaders of this company work with a long-term perspective.
	The leaders of this company work with a long-term perspective. The leaders of this company emphasize the social responsibility of our work.
STE3	The leaders of this company emphasize the social responsibility of our work.

Table 2. Means, standard deviations and factor correlations

Concept	Mean	SD	1	2	3	4	5	6	7	8	9
1. SL (†): Empowerment	5.37	0.90	1								
2. SL: Servitude	4.78	1.10	.42**	1							
3. SL: Accountability	5.31	0.88	.52**	.45**	1						
4. SL: Courage	4.81	1.02	.18**	.20**	.25**	1					
5. SL: Authenticity	4.60	1.05	.29**	.41**	.24**	.38**	1				
6. SL: Humility	5.04	1.01	.57**	.44**	.43**	.26**	.52**	1			
7. SL: Stewardship	5.28	0.99	.51**	.43**	.43**	.25**	.41**	.72**	1		
8. CSRE (‡)	5.61	0.92	.17**	.15*	.21**	.13*	.21**	.25*	.24**	1	
9. Firm innovativeness	5.50	0.95	.20**	.02	.15*	.04	.05	.16**	.14*	.61**	1

[†] SL: Servant Leadership

Table 3. Servant leadership, corporate social responsibility to employees and firm innovativeness: Cronbach's alpha, composite reliability and average variance extracted

Construct	Cronbach's alpha	Composite reliability	Average variance extracted (AVE)
Servant leadership: Empowerment	0.94	0.93	0.66
Servant leadership: Servitude	0.79	0.81	0.60
Servant leadership: Accountability	0.83	0.83	0.61
Servant leadership: Courage	0.77	0.76	0.62
Servant leadership: Authenticity	0.86	0.84	0.58
Servant leadership: Humility	0.93	0.91	0.68
Servant leadership: Stewardship	0.85	0.83	0.62
Corporate social responsibility to employees	0.91	0.89	0.62
Firm innovativeness	0.85	0.85	0.61

[‡] CSRE: Corporate social responsibility to employees

n = 285

^{*} p < 0.05

^{**} p < 0.01

Figures

Figure 1. Conceptual model

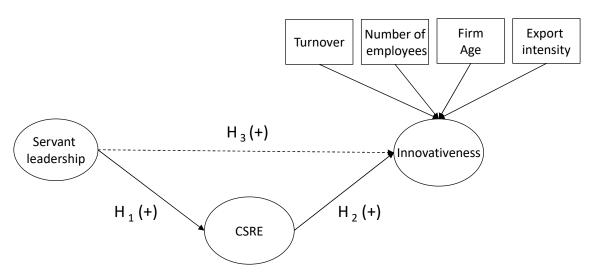


Figure 2. Servant leadership CFA analysis

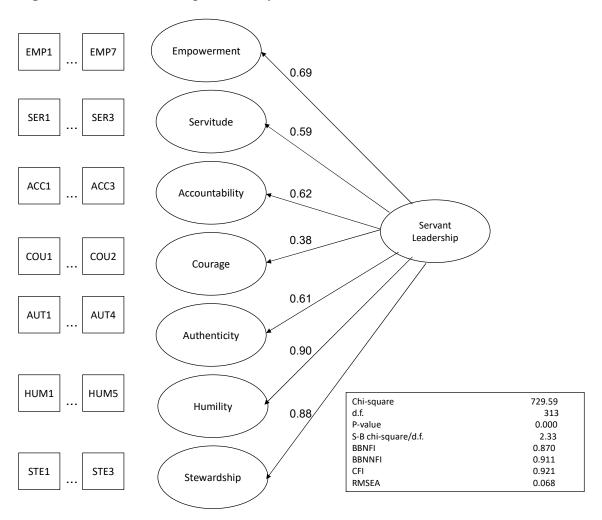


Figure 3. Total effect model (without the mediator variable)

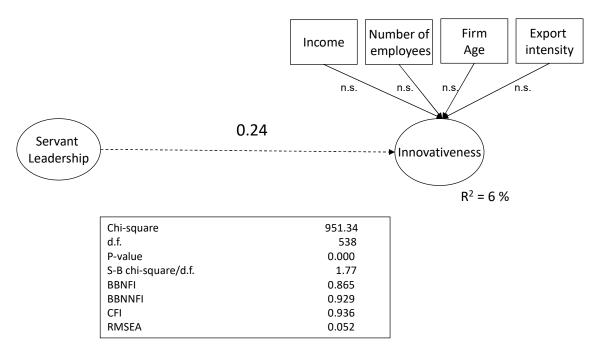


Figure 4. Results of the mediated model

