

The impact of a leader's demographic and professional characteristics on employee motivation: Do they really matter?

Abstract

Purpose

Building on arguments drawn from research on strategic leadership, this study seek to examine the possible effect on employee motivation of two sets of characteristics related to leaders: 1) demographic characteristics (gender and age); and 2) professional development characteristics (tenure, seniority, and training).

Design/methodology/approach

The empirical analysis is based on data from a survey of Spanish educational organizations. Hierarchical multiple regression analysis estimations are used for testing our hypotheses.

Findings

Results reveal that the characteristics linked to the leader's professional development have a significant impact on employee motivation. Specifically, a long-term tenure has a negative effect, while seniority in the organization and training have a positive impact on it. However, none of the leader's demographic characteristics considered in the study has a significant impact on employee motivation.

Practical implications

Several lines of managerial action are suggested for improving employee motivation.

Originality/value

This study is one of the first attempts to explore what impact certain leaders' characteristics have on employee motivation.

Keywords

Employees, gender, motivation, training.

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3 Employee motivation has traditionally been a core concern for leaders (Amabile, 1993), as the
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5 success of the organizations they manage depends largely on their employees. In fact, it seems
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7 clear that one of the most relevant leadership competencies is the ability to motivate
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9 employees. As recently argued by Nohria, Groysberg, and Lee (2008: 78), getting the best out
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11 of employees —or to put it another way, having highly motivated employees— has today
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13 become “one of managers’ most enduring and slippery challenges”. Based on two major
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15 studies of two global businesses and three hundred *Fortune 500* companies, they find
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17 evidence for a direct and positive relationship between employee motivation and their top
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19 managers’ ability to motivate staff. In a similar vein, Adair (2006) suggests that about fifty
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21 per cent of employee motivation depends on leaders’ behavior.
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25 Prior research based on the Upper Echelons Theory recognizes that leaders’ values,
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27 cognitions, perceptions, and behaviors may be conditioned by some of their observable
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29 demographic and personal characteristics (e.g., Hambrick and Mason, 1984; Hambrick,
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31 2007). Although leaders may be key drivers of motivation, there is a lack of research
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33 exploring how their characteristics —considered reasonable proxies for the underlying
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35 differences in their behaviors (e.g., Carpenter et al., 2004; Hambrick and Mason, 1984)— may
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37 effectively impact on employee motivation. Accordingly, this study aims to fill this gap in the
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39 literature by addressing the following research question: What impact do leaders’
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41 characteristics have on employee motivation? More specifically, this study seeks to examine
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43 the possible effect on employee motivation of two sets of characteristics related to leaders: 1)
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45 demographic characteristics (e.g., gender and age); and 2) professional development
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47 characteristics (e.g., tenure, seniority, and training).
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52 We develop a set of hypotheses by describing how the leaders’ characteristics considered
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54 in this study may either facilitate or hinder employee motivation. In this regard, we argue that
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56 the strategic leadership perspective, which is rooted in Upper Echelon Theory, may provide a
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3 helpful theoretical perspective for addressing our research question, as it asserts that leaders
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5 are crucial to organizational outcomes “because of the decisions they are empowered to make
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7 and because, ultimately, they account for what happens to the organization” (Hambrick, 1989:
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9 5; Vera and Crossan, 2004: 222).

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11 This study contributes to the research on the determinants of employee motivation by
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13 providing fresh insights. Researchers have long been grappling with the conditions under
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15 which employees become internally and externally motivated to perform their tasks
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17 effectively (e.g., Camilleri, 2007; Hackman and Oldham, 1976; Manolopoulos, 2008; Word
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19 and Park, 2015). As we explain how several characteristics linked to strategic leaders may
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21 impact on employee motivation, we will attempt to further our understanding of motivation
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23 itself, mainly with regard to how it may be externally influenced. On the other hand, given
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25 that motivated employees boost organizational success, then the insights into human behavior
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27 derived from this study may help leaders to get the best out of their employees. This study
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29 might therefore help leaders to directly understand the way in which certain factors under
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31 their control may affect the employees they manage and, ultimately, organizational
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33 performance.

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35 This study uses educational organizations as the research setting for empirically testing
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37 our hypotheses. This type of organization is a particularly suitable scenario because many
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39 studies have revealed that leaders (i.e., principals) are in a position to make a critical
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41 difference in their organizations’ quality and outcomes (Day, Sammons, and Hopkins, 2009).
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43 In this regard, recent international reports on education (Barber and Mourshed, 2007; OECD,
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45 2016) stress that a good or excellent educational organization tends to be managed by well-
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47 qualified leaders. In view of the impact education has on a society and its economic system, it
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49 is important to know how the characteristics and managerial skills associated with leaders are
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51 related to increased staff motivation. Our findings may therefore have significant implications
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3 in the field of educational policy for informing the actions of managers in the process of more
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5 effectively discharging their managerial functions and duties.
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8 9 **Theoretical development and hypotheses**

10 Figure 1 provides a graphical presentation of our theoretical model. As depicted in this model,
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12 we assume there is a potential relationship between certain demographic and professional
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14 development characteristics related to leaders and employee motivation.
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20 **Insert Figure 1 about here**
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23 ***Gender***

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25 Some reports have recently argued over structural gender discrimination, stressing that after
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27 several years of work women continue to account for a significantly lower share of leadership
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29 positions, and are generally underrepresented in senior management positions (OECD, 2015).
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31 For example, in 2016 women held 12 (2.4%) of CEO positions in Fortune Global 500 (this list
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33 includes the world's 500 largest companies). In a similar vein, according to a CNN Money
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35 analysis conducted in 2016, only 27 women (5.4%) were at the helm of S&P 500 companies.
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39 Many studies have explored the glass ceiling that prevents career development among
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41 women, as well as the reasons well-trained women with management aspirations fail to climb
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43 the organizational ladder as easily as men (e.g., Chizema, Kamuriwo, and Shinozawa, 2015;
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45 Festing, Knappert, and Kornau, 2015; Glass and Cook, 2016). Despite these barriers, an
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47 extensive prior literature has been interested in examining the potential effect women leaders
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49 may have on different performance indicators, such as productivity, growth, risk, or
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51 profitability (e.g., Huang and Kisgen, 2013; Jalbert, Jalbert, and Furumo, 2013; Krishnan and
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53 Park, 2005). Specifically, there are several studies showing that those organizations led by a
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55 woman tend to achieve better outcomes than those managed by men (e.g., Gondhalekar and
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3 Dalmia, 2007; Khan and Vieito, 2013). Overall, most of these studies emphasize the benefits
4 that feminine values can bring to management positions, as well as the potentially positive
5 effects of women's management style on organizational effectiveness (Bass and Avolio,
6 1994; Eagly, 2007). In this regard, it is commonly suggested that compared to their male
7 counterparts, women managers are more likely to behave in a more democratic, cooperative,
8 collaborative, emotional, and nurturing way (Eagly, Johannesen-Schmidt, and van Engen,
9 2003; Rosener, 1990).

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Based on the values attributed to a feminine management style, we argue that women holding leadership positions may benefit the organization in terms of employee motivation. Their more interactive and intuitive cognitive style may engage other members and enhance subordinates' self-worth by making them feel an important part of the organization (Nielsen and Huse, 2010; Rosener, 1990). This value-centered and people-oriented style tends to emphasize harmony, agreement, commitment, and understanding. This style is also more likely to enable women to inspire confidence among their peers and subordinates, share information, and bring people together (Bass and Avolio, 1994; Krishnan and Park, 2005: 1713).

Dezsö and Ross (2012) reveal that women in leadership positions increase the motivation and commitment of fellow women lower down in the hierarchy, leading to an improvement both in their individual performance and in their contribution to the groups they belong to. This may be especially relevant in the case of educational organizations because they are considered feminized environments, and education requires many of the values and approaches associated with women (e.g., Eagly, Karau, and Johnson, 1992). In this sense, Krüger (2008) reports that women are more focused on education and school goals, they are better at creating a positive culture and an orderly learning atmosphere, they reward teachers more often, and they create more professional development opportunities for teachers. On the

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3 other hand, their male counterparts tend to spend more time and attention on administrative
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5 tasks and external contacts. Similarly, Krüger et al. (2005) also reveal that women use a
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7 management style that is more heavily focused on human relations. In a similar vein, Eagly et
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9 al. (2003) argue that women produce significantly better outcomes than men in terms of the
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11 extra effort they inspire from subordinates and how people value their leadership. Therefore:
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14 Hypothesis 1: *An organization led by a woman will have a positive influence on*
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16 *employee motivation.*
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20 21 **Age**

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23 An individual's age involves sundry biological and psychological changes that modify their
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25 emotional functioning, emotional experiences, and mental and cognitive capacity (Settersten
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27 and Mayer, 1997; Sterns and Doverspike, 1989; Sterns and Miklos, 1995). Several studies
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29 recognize that as age increases such changes have an impact on people's behavior and
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31 attitudes, as well as on their motivation toward work (e.g., Cleveland and McFarlane Shore,
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33 1992; Kooij et al., 2011).
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36 In terms of changes in behavior and attitudes, most of the literature stresses that older
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38 individuals are less innovative and more resistant to change, more skeptical, and generally
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40 less willing to participate in training and career development (e.g., De Lange et al., 2010; Ng
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42 and Feldman, 2012). By contrast, younger individuals generally have better attitudes toward
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44 individual and group work, showing more initiative and enthusiasm, and being more
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46 proactive. Regarding motivation toward work, several studies reveal that age modifies
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48 concerns about workload and effort (e.g., Mor-Barak, 1995; Park, 2000). Specifically, some of
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50 these studies suggest that older individuals become more selective in their work and non-labor
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52 activities by prioritizing non-work activities due to their more limited future time perspective
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54 (Zacher and Frese, 2009). In fact, the costs of cognitive activity increase with age in
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3 adulthood, and these costs influence individuals' willingness to engage resources in support of
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5 demanding cognitive activities (Ennis, Hess, and Smith, 2013). On the other hand, younger
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7 individuals have a great desire to learn, evolving and facing different challenges when
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9 perceiving more opportunities for change within a longer time horizon. They are therefore
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11 more receptive to continuous improvement, and devote more personal resources to
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13 maximizing future results and improving their work performance (Kunze, Raes, and Bruch,
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15 2015; Park, 2000). In this sense, Kooij et al. (2011) explore the relationship between age and
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17 work-related motives, finding a significant positive relationship between age and intrinsic
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19 motives, and a significant negative relationship between age and strength of growth and
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21 extrinsic motives.
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25 Although the prior literature recognizes the effect age may have on an individual's
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27 personal behavior and motivations, as noted above, there are no studies that explore the effect
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29 of leaders' age on their subordinates' attitudes and motivation. Based on previous arguments,
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31 it seems more likely that because of their more passive and less participative attitudes
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33 (Zacher, Rosing, and Frese, 2011; Ng and Feldman, 2012), older leaders might be negatively
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35 perceived by their followers. The lower level of engagement, concern for work, initiative, or
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37 teamwork may have a negative effect on employee creativity and organizational effectiveness
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39 (Rego et al., 2007). It is therefore to be expected that younger leaders, by showing a greater
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41 commitment to improving the organization and a greater openness and willingness toward
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43 employee participation (Zacher et al., 2011), will contribute to increasing employee
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45 motivation. Therefore:
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49 Hypothesis 2: *An organization led by a younger leader will have a positive influence on*
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51 *employee motivation.*
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Tenure

Many studies suggest that leaders change their behavior over time as they mature and gain experience (e.g., Hambrick and Fukutomi, 1991; McCall, Lombardo, and Morrison, 1988; Westphal and Fredrickson, 2001). In general, several empirical studies consider a leader's prior experience in that position as a motivating factor for building trust, reliability, and mutual respect with subordinates (e.g., Avery et al., 2003; Bass and Avolio, 1994). However, there is an extensive part of the literature that ratifies the existence of several phases or seasons within a leader's tenure, each one characterized by different patterns of executive attention, behavior, and organizational performance (e.g., Avery et al., 2003; Hambrick and Fukutomi, 1991). Consequently, employee motivation may also be conditioned by the phase of the leader's tenure.

Hambrick and Fukutomi (1991: 719) recognize the need to dynamically model executive tenures, possibly in terms of their phases and seasons. They distinguish five discernible stages in a leader's tenure, and suggest that changes generally occur in several key dimensions (commitment to a paradigm, task knowledge, information diversity, task interest, and power). In the first phase —*response to mandate*—, the leader generally has a high level of commitment, and devotes more attention and energies. Although the leader has a relatively low task knowledge, they quickly overcome this disadvantage, acquiring a great deal of critical knowledge early on in the tenure (Greiner and Bhambri, 1989). In this phase, they have a high interest in the task, being perceived as interesting and very challenging. The second phase —*experimentation*— is characterized by a relative open-mindedness and intense learning, with high task interest and more power. In this sense, Gabarro (1987) also recognizes that new leaders undertake a wave of actions and undergo a "reshaping" stage in the first years. In the next phase —*selection of an enduring theme*—, the leader increases their commitment to a paradigm, as well as their belief in the enduring correctness of that approach

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3 (Miller and Friesen, 1984). They have a high task knowledge, although in line with Gabarro
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5 (1987) and Katz (1980) after about two and a half years in their job they tend to engage in
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7 more routine and slower learning than they did in their earlier period. At this moment, the
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9 leader also reduces their task interest and restricts their information sources. During the fourth
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11 phase —*convergence*—, the leader is exposed to an even narrower and more filtered
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13 information flow; task interest starts to wane, and power increases. Finally, in the last phase
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15 —*dysfunction*—, the positive effects of a leader’s continuing tenure are outweighed by the
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17 negative effects, because the leader usually shows less commitment and more fatigue, little
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19 openness and responsiveness to stimuli, and slow decision-making. In line with these
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21 arguments, several studies confirm that leaders have a more passive and less change-oriented
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23 leadership style at that moment (e.g., Ng and Feldman, 2012; Zacher et al., 2011). These
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25 causes could reduce the leader’s power and employee motivation.
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30 There are researchers sustaining that leaders experience their peak performance during
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32 the early stages (e.g., Day and Bakioglu, 1996; Hambrick and Fukutomi, 1991). In a similar
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34 vein, others conclude that manager rotation has a positive effect on certain employees’
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36 psychosocial factors and improves organizational performance (e.g., Eriksson and Ortega,
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38 2006). This may be especially relevant when a new leader introduces an innovative approach
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40 to content and roles, and seeks to create new strategies or processes (Van Maanen and Schein,
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42 1979). Accordingly, it seems logical to assume that employee motivation may increase when a
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44 leader is in the tenure’s early stages, because they are more likely to show greater enthusiasm
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46 and expectations for change, and behave in a more active and participatory manner.
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48 Information diversity, more open communication processes, and a more engaging approach
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50 may give more importance to subordinates and increase work quality and motivation.
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54 Therefore:
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3 Hypothesis 3: *An organization led by a leader with more tenure will have a negative*
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5 *influence on employee motivation.*
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9 10 **Seniority**

11 Many studies have frequently used seniority as a proxy for organizational experience. It is
12 true that seniority may be considered an indicator of experience within the organization, but a
13 differentiation should be made between individual seniority in a specific position (tenure) or
14 individual seniority in the organization. In fact, there are individuals with little experience in
15 the same position or hierarchical level (e.g., as leader), but have been in an organization for a
16 long time. It suggests that an individual has previously occupied lower hierarchical positions
17 and has been promoted through one or several positions until becoming a leader.
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27 On the one hand, the prior literature has widely recognized that greater seniority in the
28 organization provides greater knowledge and understanding of environmental characteristics
29 and organizational needs, as well as greater security and autonomy (e.g., Brimeyer, Perrucci,
30 and Wadsworth, 2010; Hall and Mansfield, 1975). On the other hand, the literature also
31 argues that seniority is the accumulation of personal investments in time and resources (e.g.,
32 Allen and Meyer, 1984; Cohen, 1993). Undoubtedly, seniority in the organization could
33 potentially generate changes in individual attitudes toward work and behavior regarding other
34 members of staff. In this sense, several studies report a positive relationship between seniority
35 in the organization and organizational commitment and affective attachment to it (e.g., Hall
36 and Mansfield, 1975; Hrebiniak and Alutto, 1972; Natarajan and Nagar, 2011; Allen and
37 Meyer, 1993). Additionally, Kaur and Sandhu (2010) also recognize that the highest and most
38 prestigious positions are usually associated with higher levels of organizational commitment.
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53 Based on these previous arguments, a leader with more seniority in the organization may
54 favor the degree of respect with regard to the rest of the organization's members and create a
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3 favorable organizational climate (Kaur and Shandhu, 2010). In this context, it seems more
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5 likely that leaders with a higher level of investment and familiarization with the organization
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7 will have a positive impact on employee confidence and motivation. Finally, a leader with
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9 more seniority in the organization may also have previously occupied other positions lower
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11 down in the hierarchy, which may also promote a better understanding of the requirements
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13 and needs of those positions, and thus create greater empathy with subordinates. Ultimately,
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15 this circumstance may contribute positively to employee motivation. Therefore:

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18 Hypothesis 4: *An organization led by a leader with more seniority will have a positive*
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20 *influence on employee motivation.*
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23 24 **Training**

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26 One of the more widely used arguments for the existence of continuous training programs is
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28 that they empower individuals to acquire the skills and abilities required to perform their tasks
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30 in a satisfactory manner. There are studies confirming that training has a positive impact on
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32 the perception of self-efficacy, as well as on productivity and job performance (e.g., Bartel,
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34 1994; Knoke and Kalleberg, 1994; Phillips, 2012; Salas et al., 2012). These researchers also
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36 argue that such training also allows developing a larger repertoire of responses to tackle
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38 potential problems calmly and confidently, and thus respond more effectively to unexpected
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40 contingencies. In addition, other studies also reveal the benefits of training not just at an
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42 individual level, emphasizing the importance of the exchange and transfer of skills among
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44 individuals to improve teamwork and organizational climate (e.g., Burke and Hutchins, 2007;
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46 Delaney and Huselid, 1996; Rouiller and Goldstein, 1993).
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52 Faced with an increasingly competitive scenario, organizational leaders are among the
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54 most important agents that can help generate and maintain organizational competitiveness and
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56 effectiveness (Hambrick, 2007). Several studies have highlighted the need to pay special
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58 attention to the continuous development of leaders through the proper management and
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3 design of their training programs (e.g., Black and Gregersen, 2000, Clarke, 2012). In this
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5 vein, Greenfield (1977) finds that leaders receiving training prior and during their term of
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7 office greatly enhance their performance. However, as stated above, not only does training
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9 itself help to improve leaders' abilities and skills, as their training level, training motivation,
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11 and outcome expectancy can also be transferred to their employees and positively influence
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13 group performance (e.g., Scaduto, Lindsay, and Chiaburu, 2008; Velada et al., 2007; Tai,
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15 2006). In fact, several studies recognize that management training programs tend to be
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17 associated with a significant improvement in organizational performance (e.g., Patton,
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19 Marlow, and Hannon, 2000; Storey, 2004).

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23 It seems therefore reasonable to contend that a leader with the sound and continuous
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25 training required, and who manages to convey and reflect this to all the other agents, will help
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27 increase everyone else's perception as regards their competency and commitment level, while
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29 also raising the staff's level of trust, reliability, security, and motivation. In this sense, Knight
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31 et al. (1999) postulate that subordinates consider that a leadership profile corresponds to
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33 people with a greater knowledge of management tasks, and who undertake more training
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35 activities for the performance of their duties. Accordingly, it seems reasonable to expect that
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37 staff motivation will be positively affected if an organization's leaders undertake specific
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39 training programs to perform their job more effectively. Hence:
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43 Hypothesis 5: *An organization whose leaders undertake continuous training programs*
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45 *will have a positive influence on employee motivation.*
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48 49 **Method**

50 51 *Data collection and sample*

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53 The empirical analysis for testing our hypotheses is based on data from a survey of Spanish
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55 educational organizations, and more specifically, secondary schools, in the Community of
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3 Madrid. We drafted many of the questions in the survey following the guidelines of the
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5 OECD Teaching and Learning International Survey (TALIS) —Principal Questionnaire. We
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7 also used archival data included on each organization’s websites, and the website of the
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9 Department of Education of the Community of Madrid.
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12 The first step in the sampling frame involved the identifying the total population of
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14 secondary schools in the Community of Madrid. To this end, we retrieved the information
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16 available on the website of the Department of Education of the Community of Madrid.
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18 According to this information, the target population consisted of 595 schools. The second step
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20 included the preparation of a questionnaire that was emailed to the principal at each school.
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22 This questionnaire was previously reviewed by several academics and discussed with them.
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24 Additionally, we carried out face-to-face interviews with two principals and several teachers
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26 from two schools in order to receive feedback on the clarity of the questions included in the
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28 questionnaire, thereby ensuring that unfamiliar and ambiguous terms or issues were not
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30 included in any of the questions, and that the questionnaire was as concise as possible. This
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32 process improved its content, design, wording, and clarity, thus making potential completion
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34 of the questionnaire easier and more attractive.
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39 A customized survey was considered the most appropriate way to collect data because, to
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41 our knowledge, comprehensive and detailed archival information on the issues examined was
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43 not available from secondary sources. Data were collected between May and September 2015.
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45 After three follow-up reminders, a total of 105 usable questionnaires were returned via email,
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47 which represents about 17.60% of the target population. This is a response rate that is
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49 comparable to most previous studies using this type of primary source.
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52 We performed a χ^2 test to check whether there were significant differences between the
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54 study sample and the reference population. The variable ‘district’ is used for testing this, since
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56 educational organizations are grouped by districts or geographic areas. The χ^2 value was 6.653
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3 ($p=0.155$). This means there were no statistically significant differences between the
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5 percentages of organizations included in the sample and the whole population. This could be
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7 interpreted as a clear indication of sample representativeness and the absence of selection bias
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9 in our empirical study. Similar results are found when other variables are used (e.g.,
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11 organization ownership or size).
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14 15 16 *Measures*

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18 Our dependent variable is *Teacher Motivation*. To construct this variable, we studied the
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20 different validated measures of teacher motivation and teacher classification according to their
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22 motivation (e.g., Fernet et al., 2008; Tang, Wong, and Cheng, 2015; Watt and Richardson,
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24 2008). Taking as a reference Watt and Richardson's (2008) classification —*highly engaged*
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26 *persisters, highly engaged switchers and lower engaged desisters*—, the principals were
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28 asked to indicate the percentage of teachers of each group in their respective organizations. In
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30 this way, *Teacher Motivation* is defined as the ratio of staff that showed motivation, a positive
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32 attitude, and a commitment to their organization (i.e., *highly engaged persisters plus highly*
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34 *engaged switchers*) over total staff. This is an appropriate way to measure employee
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36 motivation because the school principal is in daily personal contact with their staff, and can
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38 thereby see which teachers effectively show a greater level of motivation and engagement at
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40 work¹.
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50 ¹ Response bias is a common problem in most research surveys. One of the most common sources of bias
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52 affecting the validity of survey research findings is the so-called social desirability bias. This is a bias that
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54 prompts subjects to answer in a way that makes them look more favorable to the researcher, and stems from, for
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56 example, survey modes such as face-to-face interviews or the assisted type of survey questionnaire
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58 administration and mailing (Furnham, 1986; Nederhof, 1985). This bias implies that subjects may over-report
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60 good behavior, while others may under-report bad or even undesirable behavior. Several options or strategies
have typically been suggested to limit the potential effect of this bias. According to Nederhof (1985), one of
these options involves the proper selection of the so-called 'Proxy subjects'. This option is based on the
following assumption: instead of asking a person directly (in our case, teachers), it would be preferable to
question someone (in our case, principals) who is close to or knows the target individual quite well. We have
followed this assumption here.

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3 The main independent variables of interest are as follows: Hypothesis 1 is tested using
4 *Principal's gender*, a dichotomous variable taking a value 0 if the principal is a man and 1 if
5 the principal is a woman. To operationalize Hypothesis 2, use is made of *Principal's age*, a
6 variable that takes five possible values (1 for under 30, 2 for between 31 and 40, 3 for
7 between 41 and 50, 4 for between 51 and 60, and 5 for over 60). Hypothesis 3 is tested using
8 *Principal's tenure*, a variable taking five possible values (1 for a single term—less than four
9 years, 2 for two terms —between four and eight years—, 3 for three terms —between nine
10 and 12 years—, 4 for four terms —between 13 and 16 years—, and 5 for five or more terms.
11 We use *Principal's seniority* to test Hypothesis 4, which is also a variable that takes five
12 possible values (1 for less than five years, 2 for between five and ten years, 3 for between 11
13 and 15 years, 4 for between 16 and 20 years, and 5 for more than 20 years). Finally,
14 Hypothesis 5 is tested using *Principal's training*, a dichotomous variable taking a value 1 if
15 the principal has undertaken continuous training programs related to the position according to
16 certain official training programs (courses organized by educational authorities, universities,
17 trade unions and professional bodies), and 0 if not. The variables used to test Hypotheses 1-2
18 are representative of principals' demographic characteristics, while the variables testing
19 Hypotheses 3-5 are representative of principals' professional development. Most of these
20 independent variables have previously been used by a large body of empirical research in
21 education (e.g., DeMoulin, 1992; Lee, Smith, and Cioci, 1993).
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45 We also allow for a number of control variables, largely reflecting the potential influence
46 on teacher motivation of other contextual, organizational, and personal variables, as suggested
47 by prior research exploring educational organizations (e.g., Eyal and Roth, 2011; Klassen and
48 Chiu, 2010; Tschannen-Moran and Hoy, 2007). These control variables are also added to
49 minimize the risk of omitted variable bias. We control for the potential effect of *Organization*
50 *Ownership* by considering a variable that takes a value of 1, 2 or 3 if the organization is
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3 public, state-assisted, or private, respectively. *Leadership Style* is a dummy variable taking the
4 value 1 if the leadership style followed by the principal is participative-supportive, and 0 if
5 the leadership style is instrumental. *Teacher workload* indicates the average number of groups
6 taught by each teacher, and takes four values (1 = fewer than four groups; 2 = four groups; 3 =
7 five groups; and 4 = six or more groups). *Teacher Specialization* measures the proportion of
8 teachers that work (teach) exclusively on subjects within their specialty. Finally, *Teacher*
9 *Recognition* captures the management team's satisfaction with teachers' performance on a
10 scale from 1 (not at all satisfied) to 4 (totally satisfied).
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23 Results

24 Table 1 reports the descriptive statistics (means and standard deviations) and the correlations
25 of all the variables used in our study sample. This table shows that the average number of
26 motivated staff according to the principal is about 76%; in about 40% of cases the position of
27 principal is held by a woman; the principal's age is over 51; the average number of tenures is
28 two terms (between four and eight years); and the principal's seniority is about 15 years.
29 Finally, it is also interesting to note that about 72% of principals have undertaken continuous
30 training programs.
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41 **Insert Table 1 about here**
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45 The third column in Table 1 also shows that multicollinearity does not appear to be a
46 problem in our study, as most of the explanatory variables (i.e., independent and control
47 variables) have variance inflation factors (VIFs) that are well below the rule of thumb of five
48 or ten advocated, respectively, by Marquardt and Snee (1975) and Kutner, Nachtsheim, and
49 Neter (2004); most variables have VIFs lower than 1.450.
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3 Table 2 presents the results of the hierarchical multiple regression analysis estimations
4 for testing our hypotheses. We estimated seven different models. Model 1 is the basic model,
5 as it includes only control variables. Models 2 and 3 contain the independent variables related
6 to each principal's demographic characteristics; gender and age, respectively. On the other
7 hand, Models 4, 5 and 6 separately add the potential effect of the variables related to the
8 principal's professional development; tenure, seniority, and training, respectively. Finally,
9 Model 7 includes all the control and independent variables considered. By performing all
10 these stepwise regressions, we also examine the sensitivity of the significance of the main
11 independent variables of interest.
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24 **Insert Table 2 about here**
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28 With respect to the impact the principal's demographic characteristics have on personnel
29 motivation, Models 2 and 7 show a positive, but not statistically significant, effect of
30 *Principal's gender on Teacher motivation*. Contrary to our expectations stated in Hypothesis
31 1, this means that gender does not have a significant influence on personnel motivation.
32 Models 3 and 7 show a negative, but not significant, effect of *Principal's age on Teacher*
33 *motivation*. We do not therefore find any support for Hypothesis 2, as age does not have a
34 significant impact on personnel motivation either.
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43 Regarding the potential effect of the principal's professional development characteristics,
44 we find a negative and significant effect (although weak; $p < 0.10$) of *Principal's tenure on*
45 *Teacher motivation* (see Models 4 and 7). This suggests that those educational leaders with
46 less tenure in office may exert a more positive effect on staff motivation compared to leaders
47 with more tenure. Therefore, these findings provide some support for the arguments contained
48 in Hypothesis 3. Model 5 shows that the effect of *Principal's seniority on Teacher motivation*
49 is positive, but not significant. However, in Model 7 this effect is significant ($p < 0.05$). These
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3 findings suggest that greater seniority in the organization may have a positive influence on
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5 staff motivation. In light of these results, it may be concluded that we find support for
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7 Hypothesis 4. Likewise, while the effect of *Principal's training* on *Teacher motivation* is
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9 positive, but not significant, in Model 6, this effect is significant ($p < 0.05$) in Model 7. This
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11 indicates that staff motivation can be positively affected when an organization's leaders
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13 undertake training programs to enhance their job performance. Consequently, this finding
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15 provides support for Hypothesis 5.
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19 Interestingly, our results also indicate that besides principals' demographic and
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21 professional development characteristics, there are other potential determinants of teacher
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23 motivation. For example, two of the control variables considered, *Teacher specialization* and
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25 *Teacher recognition*, are statistically and positively related to teacher motivation in most
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27 models (see Table 2). By contrast, one of the control variables representative of workload,
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29 *Teacher workload*, is negatively and significantly related to teacher motivation. It is also
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31 important to note that most of the control variables considered in the study maintain their
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33 signs and/or significance levels in the majority of models considered (see Models 1-7 in Table
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35 2).
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41 **Discussion of results**

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43 The analysis of external aspects with a significant impact on staff motivation is especially
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45 interesting due to the potential effect this may have on individuals' behavior and, ultimately,
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47 on organizational performance. The interest in studying such aspects in the field of
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49 educational organizations is increasing at a time when professionals and academics are
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51 discussing the professional conditions that have undermined teachers' job motivation (e.g.,
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53 Friedman, 2000; Hakanen, Bakker, and Schaufeli, 2006; Rudow, 1999). According to the
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55 report *Education at a Glance 2016: OECD Indicators*, teachers are the most valuable asset in
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3 education, and their work in the classroom is the internal factor with the highest incidence on
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5 students' academic results. We therefore deem it crucial to discover whether several
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7 characteristics attributed to the organizational leader can help to improve teachers'
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9 motivation. The results of our empirical analysis have confirmed the influence of certain
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11 leadership characteristics on employee motivation.
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14 On the one hand, leaders have certain demographic characteristics —such as gender and
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16 age— that do not have a significant impact on employee motivation. Despite focusing on the
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18 qualities and benefits of a female management style, there is no evidence to support the view
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20 that a woman may contribute more to employee motivation than a man. Likewise, a leader's
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22 age does not have a significant impact on employee motivation either. Although age modifies
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24 leaders' behavior and attitudes, a possible explanation for this non-significant finding is that
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26 individuals may differ in their functional or psychosocial age rather than in their
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28 chronological age (Stern and Doverspike, 1989). To some extent, our findings might be
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30 suggesting that regardless of a leader's gender or age, other personality and character traits
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32 —such as charisma, optimism or empathy— may shape their behavior, and thus have
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34 different consequences on employee motivation.
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38 On the other hand, this study reveals that certain professional development characteristics
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40 in leaders may have a significant impact on teacher motivation. A leader's tenure results in an
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42 accumulation of experiences and knowledge. However, in line with other researchers that
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44 reveal the existence of different phases in a CEO's tenure, and underscore the benefits of the
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46 early stages regarding their level of commitment and interest in tasks (e.g., Hambrick and
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48 Fukutomi, 1991), we find a negative relationship between a principal's tenure and teacher
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50 motivation. Assuming that leaders do not engage in the same sequences of activities and
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52 emphasis during their tenures (Hambrick and Fukutomi, 1991), the relationship found may be
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54 due to the loss of employee motivation when long-term leaders record a decrease in
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3 performance, a lack of openness, and slow decision-making. In this sense, our findings
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5 suggest that employee motivation may improve when they are led by leaders with less
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7 experience but a more positive attitude towards changes and challenges.
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10 Regarding a principal's seniority, we find a positive effect on teacher motivation, and
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12 argue in favor of the advantages of longer service in the organization. The fact a principal is
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14 more familiar with and has a better understanding of the history, particularities and culture of
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16 the organization, as well as its members, may have a positive impact on employee respect and
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18 motivation. Consistent with our arguments, greater seniority in the organization suggests that
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20 a leader has also held a teaching position for longer, and therefore has a first-hand
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22 understanding of the actions and behaviors that may motivate current teachers.
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25 In turn, principals have varying personal resources for performing their jobs. They will
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27 consider certain elements of their repertoires to be proven and reliable; other elements will be
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29 thought of as available, yet not very familiar, and still other elements will be considered as
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31 weak aspects that should be avoided (Hambrick and Fukutomi, 1991: 721). Hence the
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33 importance for leaders of specific and continuous training for developing their jobs. This
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35 training can certainly contribute to the development of skills and to a wider range of problem-
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37 solving responses. Along these lines, our findings suggest that continuous training is crucial
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39 for improving the performance of the principals themselves, their team, and the rest of staff,
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41 facilitating a change in behavior across the board. In fact, positive leader training may have a
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43 positive impact on employee motivation.
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47 Finally, it should not be forgotten that employee motivation can also be influenced by
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49 other contextual, organizational, and personal factors. This study positively correlates teacher
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51 motivation with a job content closely related to their specialty subjects. Teacher recognition
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53 by the principal (e.g., verbal compliments, and support for personal autonomy and initiatives)
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55 has a very positive effect on teacher motivation (in this case, extrinsic motivation). However,
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3 an excessive workload seems to have a negative impact on teacher motivation, and may
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5 trigger burnout syndrome (e.g., Hakanen et al., 2006; Harden, 1999).
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8 9 **Conclusions**

10 Employee motivation is a key factor behind an organization's success, as it favors one type or
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12 other of attitude toward it. Motivation depends, on the one hand, on a series of internal or
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14 intrinsic features that are linked to a sense of individual and collective self-sufficiency, a level
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16 of competency, vocation, and challenge that an organization cannot control, and on the other
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18 hand, on a series of external or extrinsic features such as work conditions and content,
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20 incentives, and acknowledgement. This study is one of the first attempts to explore the
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22 relationship between certain external characteristics linked to leaders and employee
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24 motivation. Insofar as the latter are concerned, this study confirms the importance that certain
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26 professional development characteristics – tenure, seniority, and training- may exert on a
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28 leader's behaviors and methods, and therefore on employees' extrinsic motivation. By
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30 contrast, there is no relationship between a leader's demographic characteristics –gender and
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32 age– and employee motivation. In this sense, we also argue that there is no perfect leader
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34 profile in educational organizations (or any other type of organization for that matter) in terms
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36 of the demographic characteristics considered in this study.
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42 Specifically, our results reveal that teachers' motivation may improve when they are led
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44 by a principal with less time in office, because leaders in their early years tend to show greater
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46 engagement, openness to change, and readiness for improvement. The fact the principal has
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48 more seniority in the organization can also help to improve teacher motivation, as they are
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50 more familiar with the organization's peculiarities. A principal's training will also allow them
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52 to refresh their knowledge and develop new skills for improving the organization as a whole,
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54 which may help to increase employee motivation. This means that in the case of professional
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3 development characteristics, it would be possible to identify a leader profile: shorter time in
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5 office, but more seniority and training.
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7 On the other hand, our study also confirms there are other characteristics related to work
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9 conditions and content and recognition practices that may have a positive impact on teachers'
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11 extrinsic motivation. The results show that teacher motivation improves when the work
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13 content is closely related to their specialty and when they obtain greater recognition from their
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15 principal. By contrast, an excessive workload has negative repercussions on teacher
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17 motivation, and probably on performance.
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20 21 22 *Practical implications*

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24 Our findings may help identify certain lines of action for improving teacher motivation, and
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26 therefore organizational performance. Regarding the role that educational authorities can play
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28 in this improvement process, our recommendation involves reflecting upon several key
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30 aspects related to principals' selection policies and the professionalization of the figure of
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32 principal. Regarding selection policies, there is a need to choose candidates by striking a
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34 balance between the variables examined here in order to mitigate the problems that in one
35
36 way or another they pose. In addition, although a principal's gender has not explained teacher
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38 motivation here, we continue to value the benefits that women bring to education. It is
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40 therefore expedient to facilitate their access to leadership positions and help remove the glass
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42 ceiling in this type of organization. In relation to selection policies and access systems, the
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44 figure of principal should receive a greater level of professionalization and autonomy for
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46 responding to each organization's peculiarities. In this sense, a rigid structure and restricted
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48 autonomy are criticized, especially in public organizations. Although ownership does not have
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50 a significant impact on teacher motivation in this study, several studies do report that there
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52 may be significant differences in management practices and performance between public,
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3 state-assisted, and private organizations (e.g., Coulson, 2009); this may be due to their
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5 different autonomy level in managing human resources, among others.
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7 As for the role of principal, special emphasis should be placed on training programs that
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9 allow them to adapt to new and changing educational requirements. In this way, a leader must
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11 become an example for their subordinates, using their own training to improve the
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13 organization's performance. This training may also be useful for implementing different
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15 employee motivation practices, as the positive effect of teachers' recognition on their extrinsic
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17 motivation has been confirmed. Such motivational practices should be designed to encourage
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19 and enhance teacher training, promotion, and performance.
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24 25 *Limitations*

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27 We end by setting out our study's main limitations and future avenues of research. First, the
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29 questionnaires have provided us with relatively easy access to the population subject to this
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31 analysis, but they have not allowed us to explore each organization's individual circumstances
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33 to observe in detail the work, performance, and decisions of the management teams and the
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35 rest of the staff. The limitations regarding the possible subjective nature of part of the
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37 information contained in the questionnaires, and therefore applicable to the construction of
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39 certain variables, would likewise be applicable here. While most measures of variables used
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41 in our study can be considered suitable (as they have also been used by other researchers),
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43 additional insights into association may be gained by adopting measures of several variables
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45 of interest (e.g., personnel motivation) that reflect different perspectives. In this sense, for
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47 example, it would be interesting to carry out an additional study by directly asking employees
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49 (in our case, teachers) —and not only the head of the organization— about their motivation.
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52 On the other hand, although the cross-sectional nature of the study precludes claims of
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54 causality, additional research adopting a longitudinal design would provide interesting insight
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3 into the direction of the relationships between the main variables of interest. Finally, the
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5 results obtained should be framed within the specific nature of the organizations and context
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7 analyzed. This means it would be expedient to conduct a similar study on another kind of
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9 organization and/or countries to verify the extent to which the findings are consistent with the
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11 ones reported here.
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TABLE 1

Means, Standard Deviations and Correlations

	Mean	S.D.	VIF	1	2	3	4	5	6	7	8	9	10
1. Teacher motivation	0.76	0.317											
2. Organization ownership	1.50	0.652	1.287	0.181									
3. Leadership style	0.75	0.434	1.322	0.095	0.171								
4. Teacher specialization	0.82	0.249	1.242	0.065	-0.295**	0.151							
5. Teacher workload	2.71	0.692	1.119	-0.155	-0.086	0.249*	-0.050						
6. Teacher recognition	3.13	0.557	1.131	0.458**	0.146	0.082	-0.117	-0.033					
7. Principal's gender	0.38	0.488	1.211	-0.029	0.066	0.080	0.043	0.036	-0.177				
8. Principal's age	4.73	0.775	1.158	-0.085	-0.041	-0.137	0.003	-0.001	-0.013	-0.008			
9. Principal's tenure	2.52	0.900	1.437	0.028	-0.301**	-0.117	0.036	-0.015	-0.015	-0.156	0.483**		
10. Principal's seniority	3.98	0.909	1.216	0.038	-0.130	-0.232*	-0.171	0.048	-0.054	-0.027	0.102	0.210*	
11. Principal's training	0.72	0.449	1.209	0.222*	0.209*	-0.012	-0.178	-0.011	0.260**	-0.173	0.007	0.200*	-0.107

N= 105; * $p < 0.05$; ** $p < 0.01$.

Table 2. Hierarchical multiple regression analysis (dependent variable = Personnel motivation)

Variables	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
Constant	-0.020*** (0.227) ⁽¹⁾	-0.056 (0.230)	0.146 (0.277)	0.160 (0.248)	-0.207 (0.255)	-0.034 (0.226)	-0.080 (0.296)
Organization ownership	0.041 (0.043)	0.035 (0.043)	0.041 (0.043)	0.035 (0.043)	0.050 (0.043)	0.030 (0.043)	0.025 (0.043)
Leadership style	0.036 (0.065)	0.034 (0.065)	0.025 (0.065)	0.007 (0.066)	0.058 (0.066)	-0.044 (0.064)	0.042 (0.066)
Teacher specialization	0.187 [†] (0.111)	-0.181 (0.111)	0.190 [†] (0.111)	0.166 (0.111)	0.216 [†] (0.112)	0.202 [†] (0.101)	0.225* (0.109)
Teacher workload	-0.071 [†] (0.039)	-0.072 [†] (0.039)	-0.070 (0.039)	-0.073 [†] (0.039)	-0.075 [†] (0.039)	-0.071 [†] (0.039)	-0.082* (0.038)
Teacher recognition	0.242*** (0.047)	0.254*** (0.049)	0.243*** (0.047)	0.245*** (0.047)	0.245*** (0.047)	0.225*** (0.048)	0.237*** (0.048)
Principal's gender		0.059 (0.055)					0.059 (0.056)
Principal's age			-0.035 (0.033)				-0.018 (0.034)
Principal's tenure				-0.051 [†] (0.030)			-0.055 [†] (0.033)
Principal's seniority					0.046 (0.030)		0.070* (0.030)
Principal's training						0.094 (0.060)	0.134* (0.161)
R ²	0.272	0.281	0.280	0.294	0.291	0.291	0.363
ΔR ²	0.272***	0.009	0.008	0.022 [†]	0.018	0.018	0.091*
Adjusted-R ²	0.234	0.235	0.235	0.249	0.245	0.245	0.292
F-test	7.107***	6.122***	6.107***	6.526***	6.419***	6.417***	5.130***
N	105	105	105	105	105	105	105

(1) Standard errors in brackets. ***p<0.001; **p<0.01; *p<0.05; †p<0.10.

FIGURE 1

The proposed research model

