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# Be like me: The effects of manager-supervisor alignment

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### Be like me: The effects of manager-supervisor alignment

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### Be like me: The effects of manager-supervisor alignment

### Abstract

**Purpose** – This study examines whether managerial capability fit between line-managers, middle-managers, and top-level managers enhances effectiveness.

**Design/methodology/approach** – Effectiveness data and managerial capability ratings from more than 1,600 manager-supervisor dyads were collected in the United States and Germany. Polynomial regression was used to study the relation between manager-supervisor fit and managerial effectiveness.

**Findings** – Our results indicate that the fit of managerial capabilities between a manager and his/her supervisor predicts the effectiveness of this manager. The most effective managers show particularly high managerial capabilities that are in line with predominantly high managerial capabilities of their supervisors. Two aspects are important: the manager-supervisor fit and the absolute capability level that both possess. The results further indicate that the importance of the manager-supervisor fit varies across lower, middle, and top-level management dyads.

**Research limitations/implications** – This study contributes by advancing research on managerial capability fit conditions between managers and their supervisors as a central element in viewing and managing effectiveness of managers.

**Practical implications** – This article informs managers, supervisors, and HR professionals about pitfalls in organizations that degrade effectiveness.

**Originality/value** – This article shows how the alignment between managers and their supervisors relates to effectiveness in a large-scale study across different hierarchical levels.

Key words: manager-supervisor, fit, managerial capabilities, managerial effectiveness, congruence theory

### 1. Introduction

Managerial capabilities seem particularly important in today's fast-changing management world as capabilities drive managerial behavior and are more malleable than other management predictors like traits or values (Boyatzis and Saatcioglu, 2008). Despite considerable progress in understanding managerial capabilities over the years (Howell and Shamir, 2005), alignment of capabilities between managers from different hierarchical levels and its effect on organizations have not been the center of attention. This is particularly inexplicable as the competency-alignment between the top, middle, and line management should facilitate an organization's innovation process and goal achievement due to a common understanding which fosters communication between the management levels (Chen et al., 2016). Therefore, the primary objective of this study is to investigate whether the alignment between the capabilities of managers from different hierarchical levels boosts or limits managerial effectiveness. With this study, we offer insight on how the manager-supervisor capability fit impacts managerial effectiveness under three different circumstances: (a) when the manager has lower capabilities than the supervisor, (b) when the manager has higher capabilities than the supervisor, or (c) when both are at the same capability level. Furthermore, we enhance understanding on whether manager-supervisor fit is similarly important across different managerial capabilities and hierarchical levels.

We contribute to the body of research on managerial capabilities which illustrates the need for managers of different hierarchical levels to align their capabilities with subordinates to enhance outcomes. Our insights help to understand the effects of different patterns of manager-supervisor combinations. We believe that understanding the fit of managerial capabilities between managers from lower, middle, and top management assists organizational performance and drives manager's empowerment.

### 2. Theoretical background and hypotheses

Relationships in terms of fit (or alignment) versus misfit (or non-alignment) between supervisors and subordinates have been studied extensively, primarily with a focus on values and traits rather than capabilities. In their comprehensive literature review, Kim et al. (2019) and Zhang et al. (2012) showed that supervisor-subordinate alignment plays a central role in subordinates' work outcomes. This alignment can either directly influence subordinates' outcomes or enhance the impact of other outcome-related factors.

Regarding the direct effect of alignment on outcomes, Atwater et al. (2005) and Taylor et al. (2012) demonstrated that supervisor-subordinate fit positively affects managerial and leadership performance. When supervisors and subordinates are aligned, the subordinates find their work more satisfying and their environment more trustworthy (Posner, 2010) while at the same time the supervisors perform better (Atwater et al., 2005). Moreover, alignment enhances subordinates' corporate social responsibility (Groves, 2014), commitment (Caldwell et al., 2004), and confidence (Kim et al., 2019).

In management, often ambivalent relational situations occur. On the one hand, managers act in their role as supervisors when interacting with their subordinates (here: supervisor-subordinate dyad). On the other hand, most managers also work in subordinate roles as they report to other, higher-level managers who represent their direct supervisors (here: manager-supervisor dyad). In this study, we focus on the manager-supervisor relationship, which is a distinct supervisor-subordinate dyad where both, the supervisor and subordinate, hold managerial responsibility. To highlight this fact, we subsequently use the term manager-supervisor relationship and differentiate three dyads. First, we study capability alignment between line and middle managers (lower management dyads) followed by alignment between top and executive managers (top management dyads). In each dyad, the lower-level manager is termed *manager* while the higher-level manager is termed *supervisor*. As research is relatively silent about the relational interaction between managers of different hierarchical levels, our

subsequent literature review mainly draws on findings from dyads in which the subordinate has no managerial duties. Transferring the previously summarized, positive effects of alignment on subordinate outcomes to our management dyads, we assume that alignment between managers and their supervisors will positively relate to managers' effectiveness.

Conversely, few studies shed light on the effects of misalignment between subordinates and supervisors (Soltani and Wilkinson, 2010). Most existing studies find primarily negative effects (Kuenzi et al., 2019). Among the few studies that focus on management characteristics rather than broader attitudes or values is Soltani and Wilkinson's (2010) investigation which demonstrates that when supervisors and subordinates are not aligned subordinates pursue their own interests rather than company objectives. Similar effects were described for supervisorsubordinate misalignment on management philosophy (Bondarouk, Bos-Nehles and Hesselink, 2016). Transferring these results to our manager-supervisor dyads, we suggest misalignment negatively relates to managers' effectiveness.

From the findings summarized above it becomes evident that prior research almost exclusively focuses on alignment/misalignment between attitudes, values, or personality, yet the more observable and malleable capabilities are not addressed. Little research examines alignment between dyads in which both individuals fulfill management roles and even fewer studies investigate the relevance of alignment/misalignment on managerial effectiveness. This study aims at closing all three of these research gaps as it focuses on a management-only sample, measures managerial effectiveness, and focuses on managerial capabilities.

#### 3. Managerial Capabilities

Existing taxonomies on managerial capabilities differ, among others, with regard to their relevance for industries (Wickramasinghe and De Zoyza, 2009), bandwidth-fidelity level, and number of relevant capability categories (e.g., Bartram's (2005) 'Great Eight'). While there is still no common understanding of the most important management capabilities, grouping capabilities into three major categories is widely accepted and common practice (Yukl and

Lepsinger, 2005). In this study, we rely on these capability categories and thus briefly describe them:

- 1. Task-oriented managerial capabilities primarily focus on 'increasing efficiency and process reliability' (ibid, p. 363).
- 2. Relations-oriented managerial capabilities are concerned with establishing healthy, mutually beneficial, and productive relationships among individuals inside or outside of the organization.
- 3. Change-oriented managerial capabilities focus on improving innovativeness and adapting to internal and external changes in the environment.

### 4. Study Overview

A recent review and meta-analysis show that aligned dyadic relationships at work enhance individual outcomes (Kim et al., 2019; Kristof-Brown et al., 2005). We transfer this finding to the management context and propose that manager-supervisor alignment on managerial capabilities enhances manager effectiveness. Our proposition roots in congruence theory (Holland, 1997), which states that behavior and subsequent *outcomes* are determined by (i) the interaction between an individual's characteristics and (ii) the work environment in which he/she operates. Supervisors and their means of interaction are important aspects of this work environment and which is why manager-supervisor interaction should affect managerial behavior and subsequent effectiveness. According to congruence theory, aligned managers receive diverse benefits, such as more positive feedback, which again boosts their confidence and directs them toward desired outcomes. Additionally, aligned managers are also more accepted which makes it easier for them to unleash potential to achieve outstanding performance (Holland, 1997). Concluding, we assume that manager-supervisor fit on task-, relations- and change-oriented capabilities is beneficial and enhances effectiveness with the resulting hypotheses: H1. Managers' effectiveness is particularly high when their overall managerial capabilities are in line with their supervisors' capabilities.

H2. Managers' effectiveness is particularly high when their task-oriented managerial capabilities are in line with their supervisors' capabilities.

H3. Managers' effectiveness is particularly high when their relations-oriented managerial capabilities are in line with their supervisors' capabilities.

H4. Managers' effectiveness is particularly high when their change-oriented managerial capabilities are in line with their supervisors' capabilities.

Anzengruber et al. (2017) showed that task-oriented and relations-oriented capabilities are most important for effectiveness at the lower and middle management while in top management change-oriented and relations-oriented capabilities predominantly enhance effectiveness. In light of this finding, the question arises, whether manager-supervisor alignment differently influences effectiveness at lower, middle, and top management. Based on the varying importance of capabilities for the top, middle, and lower management we propose that manager-supervisor capability fit is differently important across varying hierarchical levels. This presumably holds true for fit on task-, relations-, and change-oriented capabilities. Therefore, the following is stated:

H5. The link between managerial effectiveness and manager-supervisor capability fit varies across different hierarchical levels.

#### 5. Method

#### 5.1 Sample and Procedure

Overall, 1,921 manager-supervisor dyads from one multinational company in the hightech sector (United States, Germany) were asked to participate - whereof 1,619 provided complete data (response rate: 84%). In sum, 81% were male and 19% female, which is common ratio in the male-dominated high-tech industry. Overall, 828 were from Germany and 791 from

the USA. The respective company is known for its relatively strict and traditional hierarchical organization which facilitates separating the various management levels and makes it well suited for the purpose of this study.

According to DeChurch et al.'s (2010) management definition, the dyads were divided into 436 lower management, 854 middle management, and 329 top management dyads. The average tenure was 18.03 years (*SD*=9.13) for managers in the lower management dyads while it was 20.64 years (*SD*=9.95) and 19.79 years (*SD*=9.64) for those in the middle and top management dyads, respectively. In terms of working area, 542 led marketing, sales and product management teams whereas 460 managed research and development (R&D) units, 151 headed manufacturing units, 149 supervised finance departments, another 101 managers led information technology (IT) departments, and the remaining managers carried out general management functions. Table 1 shows the demographics of the sample.



Insert Table 1 here

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In the lower management dyads, line managers and their supervisors from the middle management rank were studied. In the middle management dyads, we examined middle managers and their supervisors from the top management level. Finally, in the top management dyads, top managers and their supervisors from the executive management level were studied.

To test our hypotheses, data on 1) the capability fit between the managers and 2) their direct supervisors and 3) data on the managers' effectiveness was collected. Capability fit was evaluated in three steps. First, we assessed the managers' managerial capabilities. Notably, the managers did not rate their own capabilities, but this was done by their direct supervisors. Second, the capabilities of the supervisors were assessed. To avoid same-source biases, the supervisors' capabilities were also assessed by their direct supervisors representing the next higher level of the hierarchy. Consequently, in this study no self-ratings are used, but rather

other-ratings are utilized and the sample comprises exclusively managers, albeit from three different hierarchical levels. Third, to calculate capability fit the managers' capabilities were contrasted to the supervisors' capabilities. Participant confidentiality was protected throughout the whole process.

To examine the effect of manager-supervisor fit on managerial effectiveness, the latter was measured in terms of an annual effectiveness evaluation. This evaluation was conducted within a standardized process by the Human Resources (HR) departments and was commonly used for decisions on the managers' promotion, salary increase, and developmental plan. Table 2 provides additional information on the effectiveness evaluation and the capability ratings. Notably, all data were gathered online within a larger study on capabilities.

Insert Table 2 here

#### 5.2. Measures

#### 5.2.1 Criterion: Managerial effectiveness

In this study, we build on the work of Lowe, Kroeck and Sivasubramaniam (1996) and define managerial effectiveness as the level of a manager's goal attainment within the last 12 months. It was measured in a three-step process by independent, three-person consortia representing the HR departments. First, each consortium saw the goals that had to be met by its managers. These goals were agreed upon annually, represented the company's understanding of effectiveness, and were set in agreement with the managers. In this instance, goals referred to financial goals, leadership goals, learning goals, and customer satisfaction goals. Second, each HR-consortium studied information on the goal attainment of its managers by inspecting the managers' level of goal attainment to finally rate their overall effectiveness. In line with previous research (Debnath et al., 2015), critical incidents were used to define five

different levels of effectiveness on a vertical, behaviorally anchored rating scale. The value *1* was assigned to the lowest effectiveness, indicating clear underachievement while the value *3* represented general goal achievement, and *5* indicated a strong over-fulfillment of the set goals for the last 12 months.

### 5.2.2. Predictors: Managerial capabilities

Managerial capabilities served as predictor variables. We measured task-, relations-, and change-oriented capabilities using Yukl et al.'s (2002) behaviorally anchored scale, which was slightly modified to serve the company's context. Each capability was assessed through three behavioral items, which were based on critical incidents. The items were completed on a Guttman scale ranging from *I* (lowest capability level) to 7 (highest possible capability level). Table 2 provides sample items. Each of the task-, relations-, and change-oriented capabilities was computed by calculating the arithmetic mean of the associated items. Finally, an overall score for managerial capability was calculated by using the arithmetic mean of all capabilities. Importantly, the managers' capabilities were rated by their direct supervisors who represented the next higher management level. To assess manager-supervisor capability fit, the supervisors' capabilities were also measured using the very same measurement and procedure. Therefore, capability ratings were also provided by the next higher management level (see Table 2).

#### 5.3. Data Analysis

Polynomial regressions with subsequent response surface analyses were performed to study the influence of manager-supervisor capabilities fit on effectiveness. Following Edwards' (2002) procedure the control variables were entered into the regression in a first step. In a second step, the manager's and supervisor's pooled capabilities were entered into the regression (main effects). In a third step, the squared manager and supervisor capabilities and the product of the manager and supervisor capabilities were added (higher order effects). A significant  $\Delta R^2$ between step two and three indicated nonlinear effects.

To clarify the nature of the regressed relationships, response surface analyses were conducted revealing four salient surface features. First, the slope of the line of perfect fit (i.e., when manager capabilities equal supervisor capabilities) was estimated by calculating  $a_1 = (b_1 + b_2)$ , where  $b_1$  was the unstandardized beta coefficient for supervisor capabilities and  $b_2$ was the unstandardized beta for manager capabilities. The slope of the line of perfect fit indicates if and how the manager-supervisor capability fit relates to effectiveness.

Second, the curvature along the line of perfect fit was computed using the formula  $a_2 = (b_3 + b_4 + b_5)$ , where  $b_3$  was the unstandardized beta for the squared supervisor capabilities,  $b_4$ was the unstandardized beta for the cross-product of supervisor and manager capabilities, and b<sub>5</sub> was the unstandardized beta for the squared manager capabilities. The curvature along the line of perfect fit indicates whether the slope of the line of perfect fit is (non)linear (if a<sub>1</sub> significantly differs from zero but a does not, the slope is linear).

The third and fourth step included calculating the slope and curvature along the line of *mis*fit, which is perpendicular to the line of perfect fit. Both analyses help to understand how the discrepancy between manager and supervisor capabilities relates to effectiveness. The slope along the line of misfit indicates how the direction of the discrepancy relates to effectiveness (i.e., are managers' capabilities higher than supervisor capabilities or vice versa). It was assessed by calculating  $a_3 = (b_1 - b_2)$ . The curvature along the line of *mis*fit indicates how the degree of discrepancy between manager and supervisor competencies relates to the effectiveness. It was assessed by calculating  $a_4 = (b_3 - b_4 + b_5)$ . All ratings were centered on the scale midpoint of 3 to ease interpretation (Edwards, 1994).

#### 6. Results

Table 3 indicates satisfying-to-good internal consistencies for all capabilities. The correlations between the three capabilities justify using an overall capability value.

Insert Table 3 about here

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### 6.1 How manager-supervisor alignment relates to effectiveness

In all subsequent regressions, the control variables tenure, hierarchy, gender (male=0; female=1), and nationality (USA=0; Germany=1) were entered in a first step (Dokko et al., 2009; Gentry et al., 2013). In a second step, the manager and supervisor capabilities were added. In a third step, the squared capability values and the interaction term between the parties' capabilities were entered. Subsequent response surface analyses depict how manager and supervisor capabilities relate to each when a manager is seen as particularly effective. Table 4 summarizes the regression results while Figure 1a to 1d display the response surface analyses.

Please insert Table 4 here Please insert Figure 1a–1d here

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### 6.1.1 Overall managerial capability proficiencies

Table 4 shows that the total regression including the overall score for managerial capabilities accounted for  $R^2=13\%$  (F=25.64, p<.01). Importantly, each step of the regression added incremental validity. Subsequent response surface analyses showed that the slope of the line of agreement is significant while the curvature is not ( $a_1=0.49$ , p<.01 vs.  $a_2=0.06$ , p>.05; see Figure 1a). Therefore, we conclude that in order to be seen as a highly effective manager both is needed: high manager and supervisor capabilities as well as alignment between them. These results support hypothesis 1, which states that the manager's effectiveness is particularly high when managers and supervisors are aligned at a high level of capability.

To test whether the manager-supervisor fit is important across different managerial capabilities, separate analyses were performed for task-, relations-, and change-oriented capabilities.

### 6.1.2 Task-oriented capability proficiencies

The regression including task-oriented capabilities accounted for a total of  $R^2=12\%$  (*F*=22.74, *p*<.01) of the variance in manager effectiveness. Importantly, each step of the regression added incremental validity. Taken together with the results of the response surface analyses from Figure 1b, we conclude that the managers' effectiveness is particularly high when manager and supervisor are both, high and aligned regarding their level of task-oriented capabilities (a<sub>1</sub>=0.27, *p*<.05 vs. a<sub>2</sub>=-0.05, *p*>.05). Thus, hypothesis 2 is fully supported.

### 6.1.3 Relations-oriented capability proficiencies

Table 4 shows that the regression model including relations-oriented capabilities accounted for a total of  $R^2$ =11% (*F*=21.71, *p*<.01) in the managers' effectiveness variance. Again, every single step of the regression added incremental validity. Similar to results on the task-oriented capabilities, the response surface analysis in Figure 1c shows that both, high relations-oriented capabilities of supervisors *and* managers are required to be regarded as a greatly effective manager (significant slope of agreement  $a_1$ =0.52, *p*<.05). These results support hypothesis 3.

### 6.1.4 Change-oriented capability proficiencies

Table 4 shows that the total regression model including change-oriented capabilities accounted for  $R^2=12\%$  (F=22.32, p<.01) of the variance in manager effectiveness. Notably, each step of the regression added validity. The significant  $a_1$  value of the response surface analysis ( $a_1=0.45$ , p<0.05 vs.  $a_2=0.07$ , p>0.05) suggests that the higher the supervisor's *and* the manager's change-oriented capabilities the more effective the manager is perceived (Figure 1d). Moreover, the negative  $a_4$  value ( $a_4=-0.13$ , p<.05) indicates that the smaller the differences between a supervisor and his/her manager's capabilities the more effective will the manager be seen. These results fully support hypothesis 4.

To test whether manager-supervisor fit is similarly important for different hierarchical levels, separate analyses were performed for the lower, middle, and top-level management.

### 6.2 Manager-supervisor alignment for different hierarchal levels

### 6.2.1 Lower management

The results in Table 4 and Figure 2a to 2c show that the manager-supervisor fit is particularly important in lower-level management. While alignment on change- ( $a_2$ =-0.28, p<.05) and relations-oriented ( $a_1$ =0.60, p<.05;  $a_2$ =-0.29, p<.05) capabilities enhances manager effectiveness, it is *mis*alignment on task-related capabilities ( $a_2$ =-0.25, p<.05;  $a_3$ =0.20, p<.05) that impacts effectiveness in lower-level management.

#### 6.2.2 Middle and top management

Results in Table 4 and Figure 2 suggest that in the middle management those with the highest and best-aligned relations-oriented capabilities are seen as the most effective managers (Figure 2d;  $a_1=0.37$ , p<.05). Additionally, the effectiveness of those in the top management is related to manager-supervisor fit on task-oriented capabilities (Table 4:  $\Delta R^2=2\%$  in step three, p<.05). Figure 2e shows that in order to be seen as highly effective in a top management position it is important to have both, high manager and supervisor task-oriented capabilities as well as a fit between these capabilities ( $a_1=0.44$ , p<.01).

Insert Figure 2a - 2e here

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In conclusion, the results for the lower, middle, and top-level management show that the importance of the manager-supervisor fit for effectiveness varies across different hierarchical levels. While the effectiveness of those in the lower management is related to manager-supervisor fit in task-, relations-, and change-oriented capabilities, the importance of the manager-supervisor fit for those in the middle and top management is restricted to relationsand task-related capabilities, respectively. Consequently, results largely support hypothesis 5 and show that the link between manager's effectiveness and manager-supervisor fit varies across hierarchical levels.

### 7. Discussion

Many previous studies explored the circumstances under which managers were seen as highly effective. In this study, we focused on the manager-supervisor relationship, which is a distinct supervisor-subordinate dyad where both, the supervisor and subordinate, hold managerial responsibility. We used the term manager-supervisor relationship and differentiated three dyads (lower, middle and top management dyads). In each dyad, the lower-level manager was termed *manager* while the higher-level manager was termed *supervisor*. Our research results indicate that both - manager-supervisor capability fit and the absolute capability level predict the effectiveness of managers. Additionally, the importance of the manager-supervisor fit for effectiveness varies across different hierarchical levels. Taken together, our study suggests that it is not helpful to only investigate the capabilities of a manager to determine his/her effectiveness. Instead, our results show that the manager-supervisor capability fit plays a central role in a manager's work outcome.

### 7.1 Theoretical Implications

Our research answers recent calls to explore managerial capabilities in addition to frequently-studied traits and values (Yukl and Lepsinger, 2005) and contributes to the field of leadership and organizational development. The main theoretical implications of this study are threefold. First, while most prior studies on managerial capabilities were conducted from a single-sided perspective and thus only explored whether capabilities are positively or negatively related to manager effectiveness (Anzengruber et al., 2017), this study enriches the research by introducing a multi-sided perspective. In fact, not only the importance of a second party's capabilities was explored but also the dyadic fit between the manager and this second party. Notably, the capability fit was not approached in a linear manner, as done in many previous studies, but was addressed with polynomial regressions allowing to reveal non-linear effects. Using polynomial regressions instead of simple mean-differences or agreement categories, for

instance, led to the finding that once managers show at least medium-level task-oriented capabilities the fit with their supervisor's capabilities became less important for their effectiveness compared to when they showed only low task-oriented capabilities. Similarly, polynomial regression revealed that it is not the agreement but rather the *dis*agreement between a manager's and supervisor's task-oriented capabilities that impacts effectiveness in the lower-level management. Consequently, this study contributes to a more nuanced picture on how capability fit affects managerial effectiveness and further fills a shortfall of research in the field of managerial capabilities.

Second, although previous work has recognized the importance of better understanding the effects of alignment/misalignment between managers and supervisors (Soltani and Wilkinson, 2010), studies in this regard remain relatively scarce. Hence, we introduce managerial capability fit conditions between managers and their supervisors as a mechanism that fosters a deeper understanding of this under-researched field. We do so by using a management-only sample, providing a unique contribution to the managerial capability literature. In addition, we enhance existing published research by revealing that non-aligned managerial capability manager-supervisor dyads produce negative results – irrespective of the managers' hierarchy level. This outcome adds to the current understanding of the effects of misalignment between subordinates and supervisors (Soltani and Wilkinson, 2010; Kuenzi et al., 2019). This study encourages further research in this area and raises the question under what additional circumstances misalignment can be valued by a supervisor or a manager.

Finally, we advance the literature by showing that managerial effectiveness varies among the hierarchies. In detail, while the effectiveness of those in the lower management ranks is related to manager-supervisor fit in task-, relations-, and change-oriented capabilities, the importance of the manager-supervisor fit for those in the middle and top-level management is restricted to relations- and task-related capabilities, respectively. Understanding such hierarchal dynamics is desirable from a conceptual standpoint to further enhance congruence theory. Importantly, two forms of alignment or fit exist (Muchinsky and Monahan, 1987).

Supplementary fit describes that a person fits into some environment because they show characteristics which are similar to others in this environment. Complementary fit describes that an individual's characteristics complement others in the same environment. Our study provides evidence that supplementary rather than complementary fit between managers and supervisors enhances effectiveness across hierarchical levels.

### 7.2 Practical Implications

The finding that managers' effectiveness declines when they show higher relations- and change-oriented capabilities than the supervisors has practical implications for both management development and recruiting. Within management development, managers should be sensitized that their effectiveness is not exclusively driven by their own capabilities, but also by how synchronized they are with their supervisors and subordinates. Simply knowing this might help to avoid pitfalls in organizations that degrade effectiveness. For management recruiting our findings suggest matching managers from one organizational level with supervisors of the next higher level; think about a "train the trainer" sort of model. Only when a manager resembles his/her supervisor's capabilities will this manager be effectively evaluated. This information is particularly relevant when managers are deliberately hired or promoted due to unique capabilities. At first glance, they might be evaluated as less effective despite the circumstance that their misalignment probably nourishing change and innovation processes. In addition, it may be difficult to evaluate managers when the evaluator does not have or know enough about the capabilities they are attempting to assess (e.g., consider an undergraduate student or intern attempting to assess the capabilities of the top-level management team).

From the perspective of a manager, our insights help when choosing a job with a particular supervisor. Only if a manager realizes that he/she has a much higher proficiency profile than the future supervisor, he/she can act with caution since this condition negatively influences the perception of his/her effectiveness. Here a possible explanation might be that

supervisors with inferior capabilities might feel threatened and consequently misinterpret the managers' well-intentioned behaviors as refused obedience which consequently might result in lower effectiveness ratings, probably even to punish the manager for disobedience (DeChurch et al., 2010). Therefore, it is most likely that complimentary capabilities will only be valued when supervisors perceive misalignment as a source for innovation, change, or creativity.

Based on our findings, we encourage those responsible for management development and recruiting to critically reflect upon the conditions that lead to manager effectiveness ratings. One way to start this reflection could be by additionally considering the capability fit between managers and their supervisors when evaluating their effectiveness or recruiting them. This could further stimulate a joint discussion on the developmental need of the manager and may also facilitate perspective-taking as well as mutual appreciation among all parties involved.

### 7.3 Limitations and conclusions

The purpose of the study was to contribute in identifying what can elevate or limit the perceived effectiveness of managers. In line with other findings from management research (Bergner et al., 2016) we conclude that supplementary fit between managers enhances their effectiveness. Consistent with prior research (Anzengruber et al., 2017) there are three major limitations. One major limitation is that all managers and supervisors are from the same company and do not represent populations for all companies. Further studies could build on our results by adding customer capability data and data from various other companies to the analysis. Second, the data was gathered only at one point in time. A longitudinal sample would have a better exploratory power over time and could clarify the relationship between the study variables in more detail. Third, we did not examine cross-effects between hierarchies. Further investigation of these aspects could expose additional areas of fit between individuals in organizations that can boost or inhibit performance.

### References

- Anzengruber, J., Goetz, M. A., Nold, H. and Woelfle, W. (2017), "Effectiveness of managerial capabilities at different hierarchical levels", *Journal of Managerial Psychology*, Vol. 32, pp. 134-148, http://dx.doi.org/10.1108/JMP-12-2015-0451
- Atwater, L. E., Waldman, D., Ostroff, C., Robie, C. and Johnson, K. M. (2005), "Self-Other Agreement: Comparing its Relationship with Performance in the U.S. and Europe", *International Journal of Selection and Assessment*, Vol. 13, pp. 25-40.
- Bergner, S., Davda, A., Culpin, V. and Rybnicek, R. (2016), "Who overrates, who underrates?
  Personality and its link to self-other agreement of leadership effectiveness" *Journal of Leadership & Organizational Studies*, Vol. 23 No. 3, pp. 335-354.
- Bondarouk, T., Bos-Nehles, A. and Hesselink, X. (2016), "Understanding the congruence of HRM frames in a healthcare organization", *Baltic Journal of Management*, Vol. 11 No. 1, pp. 2-20, https://doi.org/10.1108/BJM-02-2015-0035
- Bartram, D. (2005), "The Great Eight competencies: a criterion-centric approach to validation". *Journal of applied psychology*, Vol. 90 No. 6, pp. 1185.
- Boyatzis, R. E. and Saatcioglu, A. (2008), "A 20-year view of trying to develop emotional, social and cognitive intelligence competencies in graduate management education", *Journal of management development*, Vol. 27 No. 1, pp. 92-108.
- Caldwell, S.D., Herold, D.M. and Fedor, D.B (2004), "Towards an understanding of the relationships between organizational change, individual differences, and changes in person-environment fit: a cross-level study", *Journal of Applied Psychology*, Vol. 89, pp. 868-882.
- Chen, Y. Wen, Z., Peng, J. and Liu, X. (2016), "Leader-follower congruence in loneliness, LMX and turnover intention", *Journal of Managerial Psychology*, Vol. 31, pp. 864-879, https:// doi.org/10.1108/JMP-06-2015-0205

- Debnath, S., Lee, B. and Tandon, S. (2015), "Fifty years and going Strong: What makes behaviorally anchored rating scales so perennial as an appraisal method?", *International Journal of Business and Social Science*, Vol. 6(2), pp. 16-25.
- DeChurch, L., Hiller, N., Murasea, T., Doty, D. and Salas, E. (2010), "Leadership across levels: Levels of leaders and their levels of impact", *The Leadership Quarterly*, Vol. 21, pp. 1069-1085. http://dx.doi.org/10.1016/j.leaqua.2010.10.009
- Dokko, G., Wilk, S. L. and Rothbard, N. P. (2009), "Unpacking prior experience: How career history affects job performance", *Organization Science*, Vol. 20, pp. 51-68.
- Edwards, J. R. (2002), "Alternatives to difference score: Polynomial regression analysis and response surface methodology", in F. Drasgow & N. Schmitt (Eds.), *Measuring and analysing behaviour in organisations: Advances in measurement and data analysis,* Jossey-Bass Inc., San Francisco, pp. 350-400.
- Edwards, J. R. (1994), "The study of congruence in organisational behaviour research: Critique and a proposed alternative", *Organisation Behaviour and Human Processes*, Vol. 58, pp. 51-100.
- Gentry, W., Cullen, K., Sosik, J., Chun, J., Leupold, C. and Tonidandel, S. (2013), "Integrity's place among the character strengths of middle-level managers and top-level executives", *The Leadership Quarterly*, Vol. 24, pp. 395-404. http://dx.doi.org/10.1016/j.leaqua. 2012.11.009
- Groves, K. S. (2014), "Examining leader–follower congruence of social responsibility values in transformational leadership." *Journal of Leadership & Organizational Studies*, Vol. 21 No. 3, pp. 227-243.
- Holland, J. L. (1997), "Making vocational choices: A theory of vocational personalities and work environments". Odessa, FL: Psychological Assessment Resources.
- Howell, J.M. and Shamir, B. (2005), "The role of followers in the charismatic leadership process: relationships and their consequences". *Academy of Management Review*, Vol. 30, pp. 96-112.

- Kim, J., Yammarino, F., Dionne, S., Eckardt, R., Cheong, M., Tsai, C. Y., ... and Park, J. W. (2019), "State-of-the-science review of leader-follower dyads research", *The Leadership Quarterly*, online first. doi.org/10.1016/j.leaqua.2019.101306
- Kristof-Brown, A. L., Zimmerman, R. D., and Johnson, E. C. (2005), "Consequences of individuals' fit at work: A meta-analysis of person–job, person– organization, person– group, and person–superior fit", *Personnel Psychology*, Vol. 58, pp. 281–342. doi:10.1111/j.1744-6570.2005.00672.x
- Kuenzi, M., Brown, M., Mayer, D. M., and Priesemuth, M. (2019), "Supervisor-Subordinate (Dis)agreement on Ethical Leadership: An Investigation of its Antecedents and Relationship to Organizational Deviance", *Business Ethics Quarterly*, Vol. 29, pp. 25-53. https://doi.org/10.1017/beq.2018.14
- Lowe, K. B., Kroeck, K. G. and Sivasubramaniam N. (1996), "Effectiveness correlates of transformational and transactional leadership: A meta-analytic review of the mlq literature," The Leadership Quarterly, Vol. 7, pp. 385–425.
- Muchinsky, P. M., & Monahan, C. J. (1987). "What is person-environment congruence? Supplementary versus complementary models of fit." *Journal of Vocational Behavior*, Vol. 31 No. 3, p. 268-277.
- Posner, B. Z. (2010), "Another look at the impact of personal and organizational value congruency", *Journal of Business Ethics*, Vol. 97, pp. 535–541. doi: 10.1007/s10551-010-0530
- Soltani, E. and Wilkinson, A. (2010), "Stuck in the middle with you: The effects of incongruency of senior and middle managers' orientations on TQM programmes", *International Journal of Operations & Production Management*, Vol. 30, pp. 365-397, https://doi.org/10.1108/01443571011029976
- Taylor, S. N., Wang, M., and Zhan, Y. (2012), "Going beyond self-other rating comparison to measure leader self-awareness", *Journal of Leadership Studies*, Vol. 6, pp. 6-31.

Wickramasinghe, V., and De Zoyza, N. (2009), "A comparative analysis of managerial competency needs across areas of functional specialization", *Journal of Management Development*, Vol. 28 No. 4, pp. 344-360.

- Yukl, G. A. and Lepsinger, R. (2005), "Why integrating the leading and managing roles is essential for organizational effectiveness", *Organizational Dynamics*, Vol. 34, pp. 361-375. http://dx.doi.org/10.1016/j.orgdyn.2005.08.004
- Yukl, G. A., Gordon, A. and Taber, T. (2002), "A hierarchical taxonomy of leadership behavior: Integrating a half century of behavior research", *Journal of Leadership and Organizational Studies*, Vol. 9, pp. 15–32.
- Zhang, Z., Wang, M. and Shi, J.Q. (2012), "Leader-follower congruence in proactive personality and work outcomes: the mediating role of leader-member exchange", *Academy of Management Journal*, Vol. 55, pp. 111-130.

Male339701272Female9715357Country and Nationality Representation:Country:Nationality:Germany828German817United States791American774Other282828			TABLE 1		
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Marketing143Project Management61Product Management123General Management29Customer Service119Other60	Sales	157		Quality	71
Product Management123General Management29Customer Service119Other60	Finance	149		Strategy	66
Customer Service 119 Other 60	Marketing	143		Project Management	61
	Product Management	123		General Management	29
	Customer Service	119			

### TABLE 2.

### Overview of the constructs, rating sources, sample items, and management dyads

apabilities of p managersrated by managers*managers*'He/She spots chances for change and plans systematically'.Dyads of top and executive managersIanagerial apabilities of rated by iddle managersTopItem for relation-oriented capability:Middle mgt. $\rightarrow$ Ianagerial adde managersTopItem for telation-oriented capability:Middle mgt. $\rightarrow$ Ianagerial apabilities of rated byMiddleItem for task-oriented capability:Lower mgt. $\rightarrow$ Ianagerial me managersMiddleItem for task-oriented capability:Lower mgt. $\rightarrow$ Ianagerial me managersMiddleItem for task-oriented capability:Dyads of line and middle managersIanagerial me managersHR-consortia In how far did the manager attain rated byIncluding	Managerial capabilities of <i>top</i> managers Managerial capabilities of <i>middle</i> managers Managerial capabilities of <i>line</i> managers Managerial effectiveness of all managers	rated by ⇒ rated by ⇒	managers* Top managers Middle	<ul> <li>'He/She spots chances for change and plans systematically'.</li> <li>Item for <i>relation</i>-oriented capability:</li> <li>'He/She empowers his/her employees'.</li> <li>Item for <i>task</i>-oriented capability:</li> </ul>	Dyads of <i>top</i> and <i>executive</i> managers Middle mgt. $\rightarrow$ Dyads of <i>middle</i> and <i>top</i> managers
apabilities of p managersrated by managers*managers* (He/She spots chances for change and plans systematically'.Dyads of top and executive managersIanagerial apabilities of rated by managersTop managersItem for relation-oriented capability:Middle mgt. → Dyads of middle and employees'.Ianagerial managersTop rated by managersItem for task-oriented capability:Dyads of middle and executive managersIanagerial managersMiddle managersItem for task-oriented capability:Lower mgt. → middle managersIanagerial me managersMiddle managersItem for task-oriented capability:Lower mgt. → middle managersIanagerial me managersMiddle managersItem for task-oriented capability:Lower mgt. → middle managersIanagerial me managersMiddle managersItem for task-oriented capability:Lower mgt. → middle managersIanagerial managersHR-consortia In how far did the manager attain his/her goals within the last 12 months? middle managers; top managers; months?ote.*Executive managers only provided capability ratings but did not receive some. Line anagers ported to executive managers.	capabilities of top managers Managerial capabilities of <i>middle</i> managers Managerial capabilities of <i>line</i> managers Managerial effectiveness of all managers	rated by ⇒ rated by ⇒	managers* Top managers Middle	<ul> <li>'He/She spots chances for change and plans systematically'.</li> <li>Item for <i>relation</i>-oriented capability:</li> <li>'He/She empowers his/her employees'.</li> <li>Item for <i>task</i>-oriented capability:</li> </ul>	Dyads of <i>top</i> and <i>executive</i> managers Middle mgt. $\rightarrow$ Dyads of <i>middle</i> and <i>top</i> managers
p managers       ⇒       and plans systematically'.       executive managers         Ianagerial       Top       Item for relation-oriented capability:       Middle mgt. →         apabilities of       rated by       managers       'He/She empowers his/her       Dyads of middle and         iddle       managers       ⇒       employees'.       top managers         Ianagerial       Middle       Item for task-oriented capability:       Lower mgt. →         apabilities of       rated by       managers       'He/She regularly monitors the goals       Dyads of line and         me managers       ⇒       that have to be achieved'.       middle managers         Ianagerial       HR-consortia In how far did the manager attain       'He/She regularly monitors the goals       Dyads of line and         ifectiveness of       rated by       including       his/her goals within the last 12          I managers       ⇒       3 people       months?          ote.       *Executive managers, iniddle managers, iniddle managers, itop	Managerial capabilities of <i>middle</i> managers Managerial capabilities of <i>line</i> managers Managerial effectiveness of all managers	rated by ⇒ rated by ⇒	managers Middle	Item for <i>relation</i> -oriented capability: 'He/She empowers his/her employees'. Item for <i>task</i> -oriented capability:	<i>executive</i> managers Middle mgt. $\rightarrow$ Dyads of <i>middle</i> and <i>top</i> managers
apabilities of iddle managersrated by employees'.managers'He/She empowers his/her employees'.Dyads of middle an top managersIanagerial me managersMiddleItem for task-oriented capability:Lower mgt. $\rightarrow$ apabilities of me managersrated by managers'He/She regularly monitors the goalsDyads of line and middle managersIanagerial I managersHR-consortia In how far did the manager attain his/her goals within the last 12 months?Imanagers $\Rightarrow$ 3 peoplemonths?	capabilities of <i>middle</i> managers Managerial capabilities of <i>line</i> managers Managerial effectiveness of all managers	rated by ⇒	managers Middle	'He/She empowers his/her employees'. Item for <i>task</i> -oriented capability:	Dyads of <i>middle</i> and <i>top</i> managers
<i>iddle</i> managers $\Rightarrow$ employees'. <i>top</i> managersIanagerial me managersMiddleItem for <i>task</i> -oriented capability:Lower mgt. $\rightarrow$ mabilities of me managersrated by managers'He/She regularly monitors the goalsDyads of <i>line</i> and <i>middle</i> managersme managers $\Rightarrow$ 'He/She regularly monitors the goalsDyads of <i>line</i> and <i>middle</i> managersIanagerial I managersHR-consortia In how far did the manager attain his/her goals within the last 12 months?I managers $\Rightarrow$ 3 peoplemonths? <i>ote.</i> *Executive managers only provided capability ratings but did not receive some. Line anagers reported to middle managers; middle managers reported to top managers; top managers ported to executive managers.	<i>middle</i> managers Managerial capabilities of <i>line</i> managers Managerial effectiveness of all managers	rated by ⇒	Middle	employees'. Item for <i>task</i> -oriented capability:	top managers
IanagerialMiddleItem for <i>task</i> -oriented capability:Lower mgt. $\rightarrow$ apabilities of <i>me</i> managersrated by $\Rightarrow$ managers'He/She regularly monitors the goalsDyads of <i>line</i> and <i>middle</i> managersanagerial $\Rightarrow$ that have to be achieved'. <i>middle</i> managersIanagerialHR-consortia In how far did the manager attainfectiveness of 1 managersrated by $\Rightarrow$ including $\Rightarrow$ $\Rightarrow$ 3 peoplemonths?	Managerial capabilities of <i>line</i> managers Managerial effectiveness of all managers	rated by ⇒		Item for <i>task</i> -oriented capability:	
apabilities of me managers       rated by managers       'He/She regularly monitors the goals       Dyads of <i>line</i> and <i>middle</i> managers         Ianagerial       HR-consortia In how far did the manager attain         fectiveness of I managers       rated by 3 people       his/her goals within the last 12          months?        months?          ote.       *Executive managers       only provided capability ratings but did not receive some. Line anagers reported to middle managers; middle managers reported to top managers; top managers ported to executive managers.	capabilities of <i>line</i> managers Managerial effectiveness of all managers	⇒ Î		1 1	
me managers       ⇒       that have to be achieved'.       middle managers         Ianagerial       HR-consortia In how far did the manager attain       Fectiveness of rated by including his/her goals within the last 12          I managers       ⇒       3 people       months?          ote.       *Executive managers only provided capability ratings but did not receive some. Line anagers reported to middle managers; middle managers reported to top managers; top managers ported to executive managers.	<i>line</i> managers Managerial effectiveness of all managers	⇒ Î	managers		Lower mgt. $\rightarrow$
Ianagerial       HR-consortia In how far did the manager attain         ifectiveness of rated by including his/her goals within the last 12          l managers       ⇒ 3 people months?         ote.       *Executive managers only provided capability ratings but did not receive some. Line anagers reported to middle managers; middle managers reported to top managers; top managers ported to executive managers.	Managerial effectiveness of all managers	I			Dyads of <i>line</i> and
and the second seco	effectiveness of all managers				middle managers
1 managers ⇒ 3 people months? ote. *Executive managers only provided capability ratings but did not receive some. Line anagers reported to middle managers; middle managers reported to top managers; top managers ported to executive managers.	all managers			-	
<i>ote.</i> *Executive managers only provided capability ratings but did not receive some. Line anagers reported to middle managers; middle managers reported to top managers; top managers ported to executive managers.		rated by	including	his/her goals within the last 12	
anagers reported to middle managers; middle managers reported to top managers; top managers ported to executive managers.	<i>lote.</i> *Executive	⇔	3 people	months?	

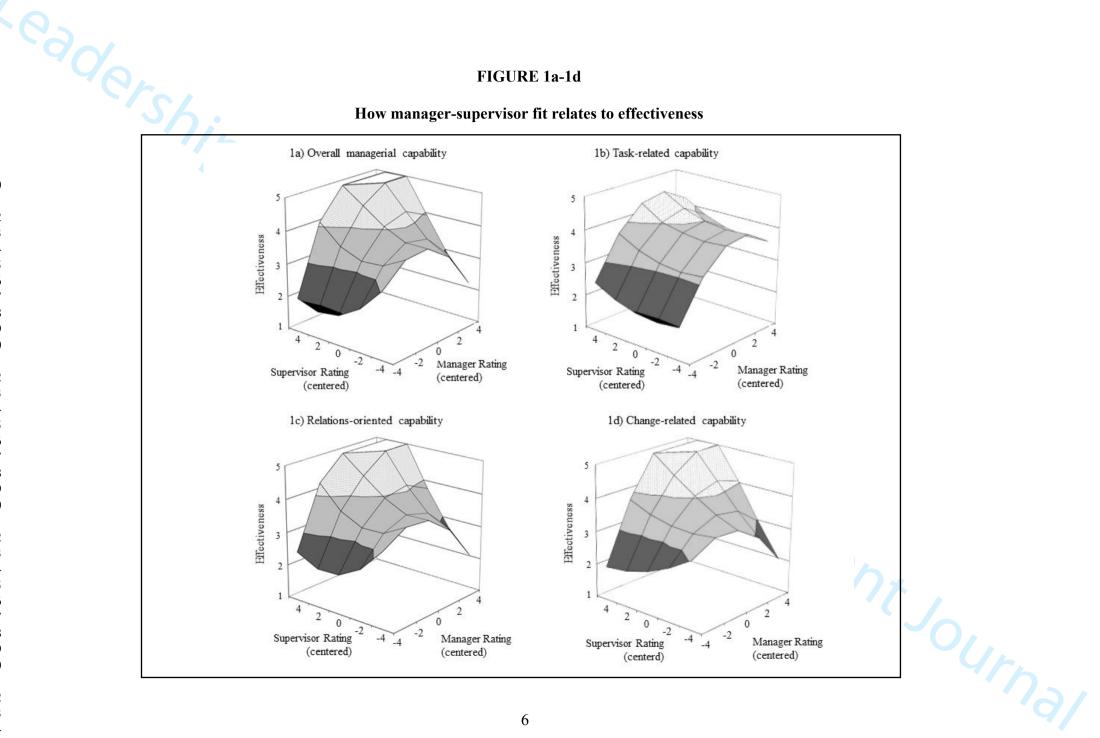
				Sup	ervisor	capabil	lities	Ma	nager o	apabili	ities	(	Control	variabl	es
115			1	2	3	4	5	6	7	8	9	10	11	12	13
	М	SD	EFF	Ov	Т	R	С	Ov	Т	R	С	Ten	Gen	Nat	Hie
1 Manager manag. effectiveness (EFF)	3.52	0.65													
Supervisor capabilities															
2 Overall capabilities (Ov)	3.44	0.56	.17**	.90											
3 Task-oriented capabilities (T)	3.66	0.66	.15**	.91**	.76										
4 Relations-oriented capabilities (R)	3.40	0.58	.16**	.89**	.71**	.80									
5 Change-oriented capabilities (C)	3.27	0.63	.18**	.91**	.73**	.73**	.73								
Manager capabilities				97	1										
6 Overall capabilities (Ov)	2.87	0.59	.35**	.35**	.31**	.29**	.36**	.91							
7 Task-oriented capabilities (T)	3.07	0.61	.31**	.31**	.27**	.26**	.31**	.91**	.77						
8 Relations-oriented capabilities (R)	2.86	0.67	.31**	.29**	.24**	.25**	.30**	.92**	.76**	.82					
9 Change-oriented capabilities (C)	2.69	0.65	.32**	.36**	.33**	.29**	.36**	.91**	.75**	.76**	.76				
Control variables								(	7/						
10 Tenure (Ten)	19.77	9.75	08*	.02	.02	.02	.02	05*	01	04	10**				
11 Gender (Gen)	0.19	0.39	.00	07**	07**	05	07**	05*	06*	01	07**	09**			
12 Nationality (Nat)	0.91	2.38	.02	01	.01	02	01	02	01	03	01	09**	.02		
13 Hierarchy (Hier)	1.95	0.69	.12**	.50**	.53**	.34**	.47**	.34**	.31**	.29**	• .34**	.06*	05*	01	

### TABLE 4. Results of the polynomial regression analyses for the overall, task-oriented, relations-oriented, change-oriented capability proficiencies.

	Overall managerial capability proficiencies												riented ficienc		oility	Change-oriented capability proficiencies						
Step	b (S	SE b)	β	$R^2$	$\Delta R^2$	b	( <i>SE b</i> )	β	$R^2$	$\Delta R^2$	В	( <i>SE b</i> )	β	$R^2$	$\Delta R^2$	b	( <i>SE b</i> )	β	$R^2$	$\Delta R^2$		
Constant	4.06**(	0.09)				3.90*	*(0.08)				3.94*	** (0.08)				4.04*	**(0.09)					
1 CV				.02**	.02**				.02**	.02**				.02**	* .02**				.02**	.02**		
2 Manager capability	0.25**(	0.06)	.22**	.12**	.10**	0.20*	*(0.05)	.18**	.11**	.09**	0.20*	** (0.06)	.20*	*.10**	* .08**	0.22*	**(0.07)	.22**	.11**	·.09**		
Supervisor capability	0.24**(	0.08)	.21**		9	0.08	(0.05)	.08			0.25*	** (0.07)	.22*	*		0.23*	**(0.07)	.22**				
3 Manager capability <sup>2</sup>	-0.07**(	0.03) ·	16**	.13*	.01*	-0.07*	(0.03)	14*	.12**	.01*	-0.06*	** (0.02)	16*	*.11**	* .01*	-0.05*	* (0.03)	15*	.12**	·.01*		
Manager*Supervisor	0.09 (	(0.05)	.12			0.00	(0.04)	.01			0.09 <sup>3</sup>	* (0.05)	.14	*		0.09*	<sup>a</sup> (0.04)	.16*				
Supervisor capability <sup>2</sup>	0.04 (	(0.04)	.05			0.02	(0.03)	.02			0.04	(0.03)	.0	6		0.02	(0.03)	.02				
																	77					

			(	Task-oriented capability proficiencies						ons-orie profic			Change-oriented capability proficiencies						
		10	b	(SE b)	-	$R^2$	$\Delta R^2$	b	(SE b)	β	$R^2$	$\Delta R^2$	b	(SE b)	• 1	$R^2$	$\Delta R^2$		
	Step	Constant	3.70*	*(0.13)				4.05**	<sup>•</sup> (0.16)				3.88*	*(0.19)					
	1	CV				.01	.01				.01				00	.01	.01		
ent	2	Manager capability	-0.10	(0.14)	08	.07*	.05**	0.17	(0.14)	.18.	.12**	.12**	-0.01	(0.17)	.14	1.05**	.04**		
nageme		Supervisor capability	-0.11	(0.17)	08			0.42*	(0.21)	.29*			0.18	(0.18)					
management	3	Manager capability <sup>2</sup>	-0.12	(0.05)	25**	.08*	.01*	-0.08*	(0.04)	21*.	.13**	.01*	-0.13*	*(0.04)	34*	*.07**	.02*		
шâ		Manager*Supervisor	-0.12	(0.12)	15			0.22**	<sup>•</sup> (0.12)	.31**			0.13	(0.13)	.23	3			
		Supervisor capability <sup>2</sup>	-0.01	(0.12)	02	>_		0.00	(0.11)	.00			-0.03	(0.09)	05	5			
	Step	Constant						3.96**	<sup>c</sup> (0.08)										
It	1	CV									.01	.01							
management	2	Manager capability						0.19*	(0.08)	.19*.	.12**	.11**							
anageme		Supervisor capability						0.19*	(0.09)	.19*									
nan	3	Manager capability <sup>2</sup>						-0.07**	<sup>•</sup> (0.03)	20**.	.13**	.01*							
-		Manager*Supervisor						0.08	(0.06)	.14									
		Supervisor capability <sup>2</sup>						0.02	(0.04)	.04									
	Step	Constant	3.65*	*(0.11)															
ıt	1	CV				.00	.00												
mei	2	Manager capability	0.19	(0.15)		.11**	.11**												
n op management		Supervisor capability	0.26	(0.15)	.18														
mar	3	Manager capability <sup>2</sup>	-0.10	(0.09)		.13**	.02*							20					
		Manager*Supervisor	0.06	(0.16)	.04														
		Supervisor capability <sup>2</sup>	0.32	(0.13)	.16**											<u> </u>			

# FIGURE 1a-1d



### How manager-supervisor fit relates to effectiveness

# FIGURE 2a-2e

### Manager-supervisor fit for lower, mid, and top management

