Can leader humility enhance project management effectiveness? Interactive effect of top management support

1: Mudassar Ali *(Corresponding Author), Ph.D.
Email: mudassarsalamat@gmail.com
(Affiliation): School of management Harbin Institute of Technology, Harbin P.R China.

2: Zhang Li, Professor
Email: zhanglihit@hit.edu.cn
Affiliation: School of Management Harbin institute of technology, Harbin P.R China.

3: Zhang Zhenduo, Ph.D.
Email: zhangzhenduo12@mails.ucas.ac.cn
(Affiliation): School of Management Harbin Institute of Technology Harbin P.R China.

4: Muhammad Zada, Post doctorate Candidate
Email: m.zada1@hotmail.com
Affiliation: School of Business Henan University  Kaifeng 475001, P.R. China

5: Abida Begum, PhD. Candidate, abidakhg@gmail.com
School of Marxism, Northeast Forestry University, Harbin 150040, China

6: Heesup Han *(Corresponding Author), PhD. heesup.han@gmail.com
College of Hospitality and Tourism Management, Sejong University, 98 Gunja-Dong, Gwanjin-Gu, Seoul 143-747, Korea

7: Antonio Ariza-Montes, PhD. ariza@uloyola.es
Social Matters Research Group, Universidad Loyola Andalucía, C/ Escritor Castilla Aguayo, 4 14004 Córdoba, Spain

8: Alejandro Vega-Muñoz, PhD. alejandro.vega@uautonoma.cl
Public Policy Observatory, Universidad Autónoma de Chile, 7500912 Santiago, Chile.

Abstract:

This paper aims to explore the effect of humble leadership on project success by integrating the mediating role of employee creativity. Top management support moderates the direct relationship (humble leadership and project management effectiveness) and indirect relationships through employee creativity. Time-lagged data were obtained from 332 persons working in the matrix
organization across the information technology. The results showed that humble leadership
enhance project management effectiveness by mediating and moderating processes. This study
provides a solution to an underlying research question that has gone unanswered in prior studies.
What are the strategies proposed for humble leadership in fostering the effectiveness of the project?

**Keywords** – Humble leadership, employee creativity, top management support, project
management effectiveness

**Introduction**

Researchers and practitioners have recognised the vital eminence indicators that state projects
1. Based on numerous features that affect the project management effectiveness, the position of the
project manager is crucially essential 2. Some scholars agree that the leadership position of the
manager is critical for the effectiveness of the project 3. The project manager discusses, guide and
courages followers to accomplish their goals 4. Recently, scholars started to study growing
aspects of leadership to contribute to the progress of the projects 5. Among all traits of leaders,
humility trait can be an important antecedent of project management effectiveness.  Ali, et al. 6
defined humble project managers as a pure form of relational leadership who appreciate the
contributions of followers. Consequently, the present research recommended that the link between
humble leadership and project management effectiveness be investigated.

This research aims to understand other processes through which the project managers mark
project management effectiveness with their humble leadership behaviour. Ali, et al. 7 call for
additional research to explain the connection among humble project managers and the project's
effectiveness through the mediators signifying creativity. Employee creativity raises valuable
ideas from individuals or working groups 8. Humble leadership is embodied in recognising
subordinates skills, which build self-confidence in their innovative thinking among subordinates’
expertise 9. Zheng, et al. 10 emphasise the need for empirical work in an essential way of creativity
in a project context. Given this gap, the current research investigates the critical approach of
employee creativity as a mediator between humble leadership and project management
effectiveness.

Besides, this study investigates top management support as the confining form for humble
leaderships to influence project management effectiveness. Standing concepts and study directly
that the project manager and senior management assistance simultaneously significant in project
management effectiveness 11. Previous research has emphasised that superior management support
is critical at various project stages 12. However, few studies have examined the interactive
leadership effects and superior management backing on project effectiveness 13. This literature gap
is significantly robust because the excellent leadership skills of project managers cannot be
effective for projects until the top management does not support them. Earlier studies suggest that
leaders' humility emphasises different facets of the innovation cycle, containing the overall
nurturing atmosphere to support his/her influences 14. This support considers top management
contribution to increasing the project management effectiveness. This research introduces top
management support for creativity that can interlink with humble leadership and project
management effectiveness. Previous literature has shown that top management support is essential
between leadership and creativity, earning scant attention as a moderator 15. Many research called
for a need to investigate the boundary conditions for the use of humble leader behaviour 16, so we
subsequently examine how top management assistance act as a boundary basis for the motivational impact on humble leader behaviour.

Establish on the preceding discussion, and the current study proposes a theoretical model that is a humble leader, both direct and indirect, linked to robust project management effectiveness (via innovative work behaviour). The goal of this research is to accord significantly to the existing literature by developing the structure. This research will extend our view of the leadership dimension by expanding the previous findings on a leadership position in project performance with followers' psychological factors. The study further strengthens the current knowledge of resource theory. Hobfoll added the principle premises to the theory's assumptions to this study's model. Hobfoll said a leader is a resource that aids workers to cope with their resources. The resource paradigm conservation should provide insight toward how humble leadership relates to resource regulations methods that procreate project management effectiveness—drawing further on the assumptions of “caravans passageways” in resource theory. Top management support functions like resource caravan passageway (i.e., a procedure that support regulate, rout, and provide resources), providing a desirable supportive atmosphere that enables humble leaders to activate employees creativity hence outcome in project management effectiveness.

Humble leadership and project management effectiveness

Prior literature suggested that humble leadership is a vital factor for workplace outcomes, such as team effectiveness and project outcomes. Still, project leadership work remains relatively scarce, and humble project manager in project context may vary substantially than in permanent organisations. The leader's humility promotes team unity and collective conception and encourages ideas sharing and logical interpretation amid followers. Cohesion, coordination, and solidarity at a reasonable level create an environment in which followers continue their efforts to raise project effectiveness. Humble leadership empowers team members and gives importance to their ideas through delegation of power. Devolution of authority and involvement in target setting improve followers efficiency, which is a necessary condition for conflict management, problem-solving techniques and goal-oriented decision-making to affect the outcome of projects. Such humble leadership behaviour improves follower morale and enhances the open sharing of ideas through feedback. It will create an environment where followers tend to focus on addressing their deficiencies to meet performance requirements, allowing them to work effectively and run the project management effectively.

Byrne, et al. revealed that the leader might have been described as a source that generates insight into the organisation by positively developing the followers or conserving resources. Furthermore, leaders' humility is a significant personal resource that enhances subordinates' trust to build an atmosphere of collaboration and teamwork that leads to project management effectiveness. Therefore, it is suggested that:

**H1.** Humble leadership is positively related to project management effectiveness

The Mediating Role of Employee Creativity

Past studies described that humble leadership is strongly associated with creative conducts. Humble project manager values the commitment of subordinates, treats followers with kindness, appreciation, and reverence, resulting in the assistants developing helpful ideas. Humble leaders also respect the feedback of followers and recommendations that facilitate the subordinates to promote the ideas and strengthen their expertise level. A humble leader accepts the errors and
shortcomings of followers as a medium for growth and progress. Consequently, subordinates are more likely to exhibit more meaningful risk-taking conduct. They find their immediate boss to encourage this conduct by either providing sufficient incentives or refusing discipline in the event of failure to produce desirable results. As a result, employees are secure enough to openly present suggestion to leaders and trust their leaders to notice and act coherently. Humble leadership promotes followers to put on fresh ideas and generate an environment where innovative approaches are encouraged to inspire workers to establish inventive solutions before a suitable method is selected. Furthermore, the humble leader makes their subordinates resilient toward precariousness by teachability and responsiveness to criticism and encourages their team members to attempt new things based on trial and error (Mallén et al., 2019) that stimulate creativity among them the followers.

Earlier studies showed that creativity meets organisational objectives. Project team members able to produce fast solutions can address organisational and technological challenges in time and improve the pace and productivity of projects. Creative work frequently relies on increasing the productivity of the workplace as creative. Team members predict and recognise visions for growth and craft new solutions to their workplaces, thereby allowing them to succeed in a competitive atmosphere. Duan, et al. submitted that employees creativity is promoted because it is a powerful method for overcoming problems in a dynamic atmosphere. A sufficient number of employees inventiveness can follow increasingly creative procedures and ambitious skills to transform these advantages into project management effectiveness. Creativity aims to increase the project importance and improve the perception that such behaviour positively influences their effectiveness and achieves objective adequately.

This implies that a humble leader stimulates creativity in order to complete the project management effectively. Therefore, creativity serves as a fundamental structure that allows humble leadership to impact project management effectiveness. Founding on conservation of resource theory, taking humble leadership as a constructive gain resource through their behaviours enable subordinates to spend their resources on flexible behaviours (i.e., employee creativity). Also, as a corollary, they are motivated to develop more resources, bringing effective project management. Based on the above discussion, the following hypotheses are proposed:

**H2a.** Humble leadership will be positively related to employee creativity.

**H2b.** Employee creativity will be positively associated to project management effectiveness.

**H2c.** Employee creativity favourably mediates the relationship between humble leadership and project management effectiveness.

**The Moderating Role of Top Management Support**

The most crucial factor is top management support, which can moderate humble leadership and project outcomes. Superior management refers to an organisation’s elliot decision-makers, such as managing director, chief executive officer, executive chairman, chief financial officer, president, and vice president. Superior management has a critical role in planning and supporting a project manager to ensure that it is executed effectively. Schultz, et al. revealed that top management assistance is the triumph aspect for ventures and reinforce the connection between leadership and employee innovation and project management effectiveness.
Using the concepts of resource conservation theory. Top management support can be characterised in the work environment of the project managers as resource caravan passageways that can help them acquire and build additional resources such as engaging in humble leadership behaviour. Top management support is motivated to accomplish its goals by accordance with acknowledgement standards, strategies, budgeting, providing human, material, and technical resources, and through fulfilling all capacity parameters, by improving project managers' confidence within the organisation. Top management support can impact project progress through its processes, such as appointing project managers, establishing an internal project supportive system, providing project resources and project methods. Project-based organisations experience difficulty, and workers who operate in such organisations encounter workplace challenges and day-to-day stress. Under these conditions, in association with superior managerial support, the humble leader may significantly influence the effectiveness of the project management.

It has to be acknowledged that humble leadership behaviours exist in the framework of the organisation, and evaluating a bivariate connection will be insufficient unless recognising the top management support system in which creativity conduct. Therefore, it is obligatory to classify and analyse top management support qualities that may interrelate with humble leadership behaviours affecting creativity. Creative behaviours are an essential motivation source and have been a topic in leadership and invention research. The motivation for creative conduct is mainly dependent on top management support that fuels innovation. Strengthening and encouraging creative activities should provide a perspective of the process, methods, strategies, and things inside the organisation. Accordingly, the organisation would be viewed based on specific communicative patterns, attitudes, and emotions, promoting creativity. Innovative behaviours are strongly related to top management support because executives are the ones who set organisational targets, make decisions on bringing and implementing innovative forms of doing jobs, and inspire employees. The encouragement of creative behaviours in the organisation will deliver workers and leaders with an energetic working atmosphere, leading to creativity. Workers can speak out as they observe they are motivated by humble leadership through top management support. Under these conditions, employees are likely to transmute ideas into innovative outcomes because a stable climate for innovation stimulates them. Besides, when employees notice humble leadership, they imitate their leaders to share views and ideas; transforming them into innovative results requires an innovative environment.

According to the concept of resource caravan passageways, the capability of individuals to design and retain their stream of resources relies mainly on circumstances outside their influence. Ali, et al. revealed that top management support is an environmental variable that can help, encourage, augment, and preserve the possessions of peoples, groups or sections of workers. Humble leadership and followers believe that senior management is concerned about resources and perceive to have sufficient resources at work. Hence, we suggest that top management interact with humble leadership and creativity and act as moderator direct and indirect linkages between humble leadership and project management effectiveness.

H3a. Top management support moderates the relationship between humble leadership and project management effectiveness, such that senior management support strengthens the relationship.

H3b. Top management support moderates the relationship between humble leadership and creativity, such that higher management support strengthens the relationship.
**H3c:** The indirect effect of humble leadership through creativity on project management effectiveness is likely to be significant for high top management support and nonsignificant for those with low top management support.

**Methodology**

**Sampling and Research Tool**

Data obtained from four major information technology companies operating in Pakistan, engaging in natural resource production and healthcare. These industries aid in developing and strengthening sustainable resources, software design, network structure, renewable building landscape architecture, and assistance with e-commerce and worker coaching to comprehend updated software tools and techniques. The survey was conducted in English, which is part of education in most educational institutions in Pakistan. The Time-lagged data collection technique was used at two-time intervals with a time lag of three months to reduce the common method bias. First time (T1) interval demographics, humble leadership and top management support data were collected. At the second time (T2) interval, we collect data on employee creativity and project management effectiveness from the same respondents targeted in the first time survey. Out of 550 circulated questionnaires, 511 questionnaires were returned. The number of responses was pretty positive in the follow-up survey, and 511 questionnaires were returned out of 179 is dropped because of careless responses. Three hundred thirty-two questionnaires were used for analysis with 60.36 percentage. The demographics of the study respondents are presented in table 1.

<table>
<thead>
<tr>
<th>Measures</th>
<th>Item</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td>Male</td>
<td>210</td>
<td>63.2</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>122</td>
<td>36.8</td>
</tr>
<tr>
<td>Age (years)</td>
<td>20 to 30</td>
<td>81</td>
<td>24.9</td>
</tr>
<tr>
<td></td>
<td>31 to 40</td>
<td>92</td>
<td>27.6</td>
</tr>
<tr>
<td></td>
<td>41 to 50</td>
<td>86</td>
<td>25.5</td>
</tr>
<tr>
<td></td>
<td>Above 51</td>
<td>73</td>
<td>22.0</td>
</tr>
<tr>
<td>Education</td>
<td>Bachelors</td>
<td>237</td>
<td>71.5</td>
</tr>
<tr>
<td></td>
<td>Master</td>
<td>65</td>
<td>19.0</td>
</tr>
<tr>
<td></td>
<td>Diploma</td>
<td>30</td>
<td>9.5</td>
</tr>
<tr>
<td>Work Experience</td>
<td>Less than 5year</td>
<td>25</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>5 to 10 years</td>
<td>100</td>
<td>30.6</td>
</tr>
<tr>
<td></td>
<td>11 to 15 years</td>
<td>131</td>
<td>39.5</td>
</tr>
<tr>
<td></td>
<td>16 years and above</td>
<td>76</td>
<td>22.6</td>
</tr>
</tbody>
</table>

**Measures**

From past literature, the focal construct methods were implemented. All measures were anchored on a 5-point rating scale of strongly disagree (1) to strongly agree (5). Humble leadership was measured with the 9-items scale developed by Owens, et al. 59 with an alpha reliability of 0.93. Project management effectiveness was measured with the 10-item scale developed by Ong and Bahar 11 with 0.94 alpha reliability. The 6-item scale of top management support developed by Islam, et al. 60 with 0.89 alpha reliability. Employee creativity measured with 13-items developed by George and Zhou 8, with 0.91 alpha reliability. Employee creativity items gauged from not all
characteristic (1) to very characteristic (5). Work experience, gender, age, and education level are included as control variables.

Table 2. Mean, standard deviation, validity, and correlation.

<table>
<thead>
<tr>
<th></th>
<th>CR</th>
<th>Mean</th>
<th>SD</th>
<th>AVE</th>
<th>EC</th>
<th>PME</th>
<th>HL</th>
<th>TMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC</td>
<td>0.91</td>
<td>3.5</td>
<td>0.85</td>
<td>0.55</td>
<td>0.74</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PME</td>
<td>0.94</td>
<td>3.8</td>
<td>0.83</td>
<td>0.61</td>
<td>0.27**</td>
<td>0.78</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HL</td>
<td>0.93</td>
<td>3.6</td>
<td>0.79</td>
<td>0.58</td>
<td>0.19**</td>
<td>0.18**</td>
<td>0.761</td>
<td></td>
</tr>
<tr>
<td>TMS</td>
<td>0.89</td>
<td>3.5</td>
<td>0.77</td>
<td>0.58</td>
<td>0.17**</td>
<td>0.19**</td>
<td>-0.063</td>
<td>0.764</td>
</tr>
</tbody>
</table>

Notes: variances extracted are on the diagonal; correlations are off diagonal. **p < 0.01 (two tailed). Note: variances extracted are on the diagonal; correlations are off diagonal. AVE = average variance extracted; CR = composite reliability; HL = humble leadership, EC = employee creativity, PME = project management effectiveness, TMS = Top management support.

Data analysis

Data analysis was performed using SPSS 23 and AMOS 23. The analysis was performed in two steps: confirmatory factor analysis (CFA) and structural model testing. CFA is a preliminary step in the data analysis process to confirm whether the measured items underlie the hypothesised latent variables. Then, hypothesise relationships are tested using a structural equation model (SEM).

Composite reliability (CR) and average variance extracted (AVE)

Composite reliability (CR) and average variance extracted (AVE) can be used to confirm convergent and discriminatory validity. The CR values were higher than 0.90, with solid consistency in all constructs. By utilising the average variance retrieved, convergent validity was confirmed. To establish convergent validity amongst the study structures, AVE values should be larger than 0.5. All constructs had an AVE value higher than 0.5, indicating no difficulty with convergent validity. Discriminant validity was tested following the Fornell–Larcker approach. The criterion was fulfilled since the square root of the AVE value of all the constructs was greater than the correlation among all the constructs as given in table 2 (The square root of AVE is given in diagonal with bold letters).

Measurement Model

Confirmatory factor analysis (CFA) was used to confirm the model fit before the hypothesis was tested. CFA results found that the four factors proposed models best match the data compared to seven alternate models, along with a single-factor model with all variables separated into one factor, three two-factor models where variables collapsed into separate mergers with two factors, and the subsequent models of various collapsing combinations of three factors.

Table 3. Confirmatory factor analysis of the measures

<table>
<thead>
<tr>
<th>Models</th>
<th>χ²</th>
<th>χ²/df</th>
<th>NFI</th>
<th>TLI</th>
<th>CFI</th>
<th>RMSEA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hypothesized 4 factor Model</td>
<td>779.7</td>
<td>1.49</td>
<td>.896</td>
<td>.96</td>
<td>.96</td>
<td>.038</td>
</tr>
<tr>
<td>Two Factors Model (F1=HL+PME, F2=EC+TMS)</td>
<td>3475.2</td>
<td>6.6</td>
<td>.537</td>
<td>.547</td>
<td>.576</td>
<td>.129</td>
</tr>
<tr>
<td>Two Factors Model (F1=HL+EC, F2=TMS+PME)</td>
<td>3299.4</td>
<td>6.27</td>
<td>.561</td>
<td>.574</td>
<td>.601</td>
<td>.125</td>
</tr>
</tbody>
</table>
Three Factors Model (F1=HL+EC, F2=TMS, F3=PME)  2311.8  4.41  .69  .72  .74  .101
Three Factors Model (F1=HL+PME, F2=EC, F3=TMS)  2483  4.73  .66  .69  .71  .105
Single Factor Model  4904.9  9.30  .34  .33  .37  .157
HL = humble leadership, EC = employee creativity, PME = project management effectiveness, TMS = Top management support.

Structural model testing

The SEM findings of direct links for the proposed model are represented in table-4. About the significant effect, the investigation revealed a significant positive connotation between humble leadership and project management effectiveness (β = 0.15, P < .001), aiding H1. H2a has also aided as humble leadership an important predictor of employee creativity (β = 0.18, P <.001). As in the case of H2b, the findings reported a strong relationship of employee creativity (β = 0.21, P < .001) with project management effectiveness; thus, it was approved. It is essential to highlight that the controls were insignificantly related to project management effectiveness except for gender. These results did not influence the relationships among the study variables.

We followed the previous method of bootstrap analysis as instructed by Preacher et al. (2007). Wang, et al. 68 revealed that the average indirect effect evaluations generally do not shadow the ordinary suggestion and might result in bias. The bootstrap technique gives the most precise confidence intervals for estimating the indirect effect. Bootstrapping analysis is persuasive as they distinguish when the mediated effect sample distribution is skewed away from 0 69. Using 5000 data samples, we estimated 95% bias-corrected bootstrapped confidence intervals (CIs). The top and lower limit findings for employee creativity ignore 0, implying that they have been substantial by conventional standards. The bootstrap findings demonstrates that employee creativity has a favourable mediating effect between humble leadership and project management effectiveness (β = 0.04, SE = 0.02, P < .05, 95% CI [0.013, 0.088]). The direct link among humble leadership and project management effectiveness was also important, thus the humble leadership and project management effectiveness were significantly mediated by employee creativity.

Table 4. Structural equation model path analysis results.

<table>
<thead>
<tr>
<th>Path</th>
<th>Coefficient</th>
<th>SE</th>
<th>t-value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Controls</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age → Project Management Effectiveness</td>
<td>0.018</td>
<td>0.04</td>
<td>0.32</td>
</tr>
<tr>
<td>Education → Project Management Effectiveness</td>
<td>-0.10</td>
<td>0.06</td>
<td>-0.16</td>
</tr>
<tr>
<td>Work Experience → Project Management Effectiveness</td>
<td>-0.12</td>
<td>0.05</td>
<td>-2.50</td>
</tr>
<tr>
<td>Gender → Project Management Effectiveness</td>
<td>0.16***</td>
<td>0.08</td>
<td>1.84</td>
</tr>
<tr>
<td><strong>Main effects</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humble Leadership → Project Management Effectiveness</td>
<td>0.15***</td>
<td>0.05</td>
<td>2.70</td>
</tr>
<tr>
<td>Employee Creativity → Project Management Effectiveness</td>
<td>0.21***</td>
<td>0.05</td>
<td>3.25</td>
</tr>
</tbody>
</table>
To test hypotheses 3a, 3b, and 4, we have used Model 8 with the PROCESS method and carried out conditional process analysis. Conditional process analysis is known as moderated mediation model, which considered the synchronous existence of a moderator (in this case, top management support) that strengthens the link among two other variables (in the present study, humble leadership and employee creativity, and humble leadership and project management effectiveness), and a mediation (employee creativity). Table 2 demonstrate that the primary outcome of humble leadership and project management effectiveness was meaningfully moderated by top management support ($\beta=0.17$, $p<.001$). Top management support meaningfully moderates the link between humble leadership and employee creativity ($\beta=0.11$, $p<.001$), which showed in Table 4. For explanatory reasons, the employee creativity and project management effectiveness were displayed even against the humble leadership in Fig. 1 and Fig. 2, separately, distinctly for high and low top management support (1 SD below and 1 SD above the mean, respectively). The bias-corrected percentile bootstrap outcomes farther displayed that the implied indirect effect among humble leadership and project management effectiveness via employee creativity was inconsequential at -1 SD underneath the mean of TMS ($Estimate=0.04, SE=0.01, 95\% CI=[-0.15, 0.15]$), but was substantial at +1 SD ($Estimate=0.012, SE=0.008, 95\% CI=[0.003, 0.032]$). Agreed that the top management support moderated both the direct and indirect paths. Hence, hypotheses 3a, 3b, and 3c were supported.
Figure-1 The conditional effect of top management support among humble leadership and effectiveness of project management.

Figure-2 The interacting effect of top management support between humble leadership and employees' creativity.
Discussion

The present study investigated a framework empirically to determine the impact of humble leadership on project management effectiveness. A significant association has been found between humble leadership and project management effectiveness. The humble project manager may persuade followers to believe in the cohesive notion of project management effectiveness, which is defined by the efficiency and gratification of stakeholders. The study's findings suggested that humility is an essential trait for a project manager to guarantee the effectiveness of the project management. Furthermore, the current research covers the gap highlighted by earlier researchers that the literature on project management does not adequately define the leadership styles of the project manager in project management effectiveness.

The present study also pointed out that employee creativity partially mediates the connection between humble leadership and project management effectiveness, indicating that humble leadership contributes to the project's significant accomplishment through employee creativity. This current finding indicates that innovative behaviour can contribute to a highly productive team. This result reinforces past claims that organisations and project managers can stimulate creative solutions capabilities among employees through employees' innovative behaviours, ultimately enhancing the project management effectiveness. Overall, the current research findings submit that employee creativity is a beneficial factor in project management effectiveness, which might be accomplished through appointing team leaders with a high level of humility.

Top management support interacts among humble leadership and employee creativity. The study has emphasised the importance that creativity boost innovation in the organisation. Zhang, et al. concluded that even as workers grow their creative capacities, implementing innovative efforts in the organisational atmosphere that impact their behaviour is undertaken. Gumusluoğlu and Ilsev discovered that the top manager's transformational leadership could explicitly and indirectly encourage organisational creativity by developing a corporate culture that supports innovative behaviours. As a result, employees feel empowered to carry out innovative activities. Our findings depict that while executives support creativity inside the organisation, the humble leader may only slightly motivate team members toward innovation and swift resolutions for problems. Grant and Berry considered that creating and signifying new ideas transformed an existing system and was supposed as pretty risky. The creation and execution of innovative ideas cannot be isolated from the individual who proposes the idea and typically follows leaders' appraisal.

Evidence has found that innovative behaviours improve when employees feel they need and welcome fresh innovations and easily share their ideas without being censored or penalised for faults. Appraising and backup idea generation will encourage staff to attempt new things to improve organisational processes continually and promote inventions. It will contribute to reconstructing the organisations’ framework, procedures, and approaches of the organisation and upsurges project performance. According to Murat Ar and Baki, idea-generating includes promoting new ideas, marketing good ideas, developing solutions, and inspiring workers to discover innovative conduct to solve problems. Mallén, et al. also indicated that humble leadership's impact on creativity would be more substantial where specific organisational environments facilitate idea generation existing and involved rather than inactive or absent. Risk-taking and idea implementation are closely associated with innovation. As inventions need long-term risk-taking and commitment, staff must understand that senior executives encourage more
ambitious and creative ideas. Some scholars stated that the development of risk-taking values in
the organisation improves the leaders' workplace support and contributes to creativity.

Founded on Altunoğlu and Bulgurcu Gürel (2015) results, too much management control in
the organisation would inhibit risk-taking and development. It is necessary to assume that there is
still a reasonable possibility of success when taking risks. It is, therefore, essential to be responsible
for tracking and calculating risk-taking while at the same time having superior management
support to accept mistakes. It is essential to recognise that risk-taking capacity will ultimately
inspire employee creativity. In this regard, with the support of top management, humble project
manager believes in trial and error approach, which provide a balance between allowing freedom
to employees to innovate quick solutions for problems.

Practical implications

Such results may have a variety of relevant implications. Firstly, our findings show the value
of a humble leader for project management effectiveness. Humility is a cherished and developable
attribute. Leaders must be educated in humble working practices. It might be a method to raise the
quality of matrix organisations, particularly in action learning. Humility is a social and
friendship trait that can formally and informally facilitate mutual teamwork among employees.

Our second research shows that creativity significantly mediates the link between humble
leadership and project management effectiveness. The leaders' job forms the skilled team to cope
with their tasks, responsibilities, expertise, and behaviour necessary for the practical outcomes and
project objectives. One implication is the effectiveness of creativity techniques, including idea
growth, idea understanding, idea application, strengthening the organisational ties and clarity of
responsibilities, and activities and problems surrounding the project team's functioning.
Furthermore, it means a good chance of projects following as the employee creativity element is
appropriately applied. The previous work demonstrated that such an operational application
produces a climate where subordinates feel confident, adding to the triumph of the venture.

Thirdly, Our results showed that top management helps provide resources, institutional
structures, communication, skills, and strategies help to increase project management effectiveness
and creativity. The findings should enable the practitioners to handle projects more actively in
which senior management will take their position seriously and confirm that managers furnish the
necessary support. Upper management improves performance and conflict management methods
through the supportive atmosphere. The literature suggests that superior management support
project managers and followers do their best and sustain high efficiency, ultimately leading to
project management effectiveness.

Limitations and future research directions

The cross-sectional breadth and the single data collection method limit our study. The notion
that data obtained from IT industries and future research will explore the civil projects. Our work
considered the relations rather than the predictions between the primary constructs. In prospective
studies, experimental design can be used to found the reason and consequence of such associations.
Subsequently, data were obtained using a single method; possible common method variance can
not be ignored. We attempted to tackle this issue to some degree by applying Harmans’ one-factor
test. The findings revealed that the single factor accounted for only 23.4% of the difference,
which was less than the threshold level of 50%, representing that common method bias is not a
critical concern.
It will be fascinating to see how humble leadership resulted in negative consequences. Zhong, et al. illustrate that a growing number of empirical research into humility has confirmed its beneficial impacts. However, it is unknown if humility leads to adverse effects, such as sluggish or less positive actions, that can conflict with the company's responses to quick alterations in the climate. Future work would be carried out at a turning point where it negatively affects the impact of humility on project quality or other outcomes.

Conclusions

Improved awareness of the factors triggering project management effectiveness is vital for matrix organisations. We also have seen that the humility of the project manager has both a direct and indirect impact on project management effectiveness within information technology projects. We also found that interacting role of superior management support among humble leadership and employee creativity and project management effectiveness. Therefore, matrix organisations must enhance humble traits in project managers through training and development techniques. As a result, it would create a collaborative project atmosphere that promotes employee creativity like idea creation, advancement, and comprehension. We expect that our study will inspire further research into employee creativity and project management effectiveness.

Biography

Mudassar Ali completed his Ph.D. from Harbin Institute of Technology, Harbin, P.R. China. His research interest related to leadership and applied knowledge areas of project management. He is reviewer of numbers of SSCI and ESCI journals. He has had published in reputed journals such as Leadership and organizational development journal (SSCI), International journal of managing projects in business (SSCI), Asia pacific journal of marketing & logistics (SSCI), Management Information System (SSCI), Baltic Journal of Management (SSCI), Management Research Review (ESCI).

Zhang Li is a Professor of Organizational Behavior and Human Resource Management at the Harbin Institute of technology in China. She completed PhD in the field of management from the Harbin Institute of University. Her research interest includes organizational behavior, human resource, leadership, and work-family balance. She has had research papers published in reputed journals such as Journal of Business Research (SSCI), Personality and Individual Differences (SSCI), International Journal of Stress Management (SSCI), and Current Psychology (SSCI). She has continuously been reviewing articles for International Journal of Human Resource Management (SSCI), and Journal of Managerial Psychology as well as AOM meeting papers.

Zhang Zhenduo completed Ph.D from Harbin Institute of Technology. His research interests are career development, helping behavior and workplace cyberbullying. He has published several papers in Personality and Individual differences, JMIR Health and Health, Current Psychology and Frontiers in Psychology.

Muhammad Zada is an assistant Professor of Management sciences at the Alhamd Islmic University in Pakistan. He won post doc position in School of Business Henan University Kaifeng, P.R. China. He completed PhD in the field of management from the Northeast forestry university Harbin china. His research interest includes economics and managements, Entrepreneurship, SMEs management, Local economic development, human resources and leadership. He has had research papers published in reputed international journals including
SSCI, SCI and ESCI. He has continuously been reviewing articles for International Journal of Conflict Management (SSCI) and Geo Journal.

**Abida Begum** is a PhD candidate in management from Northeast Forestry University, Harbin, China. Her research interest is human resource management, organization behaviour. Her research work has appeared in journals such as Sustainability (SSCI).

**Heesup Han** is a Professor in the College of Hospitality and Tourism Management at Sejong University, South Korea. His research interests include sustainable tourism, airline, medical tourism, and hospitality marketing. His papers have been selected as the most downloaded and read articles in many top-tier hospitality and tourism journals. Heesup Han is a 2019 and 2020 highly cited researcher (HCR) of the world in social science (identified by the Web of Science Group).

**Antonio Ariza-Montes** is a Professor at Universidad Loyola Andalucía (Spain), a researcher at Universidad Autónoma de Chile (Chile) and a lead member of the Business@Health Laboratory at Università Europea di Roma (Italy). His research interests include sustainable tourism, employee behaviours, and consumer behaviours, and hospitality marking. He has had research papers published in reputed journals such as Journal of Hospitality Management, International Journal of Project Management, Journal of Business Research, International Journal of Contemporary Hospitality Management or The International Journal of Human Resource Management. He serves in the editorial board of various journals and he is a blind referee for several important journals at an international level.

**Alejandro Vega-Muñoz** is a Business Professor at the Universidad Autónoma de Chile. He completed PhD in Business Studies from the Nebrija University (Spain), and is studying a second Doctorate in Political Science and Administration and International Relations at the Complutense University of Madrid (Spain). His research interest includes Behavioral Studies and Sustainability. He has had research papers published in journals such as International Journal of Hospitality Management (SSCI), International Journal of Environmental Research and Public Health (SSCI, SCIE), Sustainability (SSCI, SCIE), and Frontiers in Psychology (SSCI). He has continuously been reviewing articles for International Journal of Environmental Research and Public Health (SSCI, SCIE), and has also been a reviewer for International Journal of Hospitality Management (SSCI), and Computers & Education (SSCI, SCIE).

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