

# The Impact of Leadership Styles on Employee Engagement in High-Tech Firms



Lindsay Othen  
College of Humanities & Social Sciences, Grand Canyon University  
PSY-693: Professional Capstone  
Dr. Leslie Sherlin  
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# Introduction

- Leadership shapes engagement in high-tech firms.
- Transformational, servant styles drive motivation & trust.
- Transactional leadership limits modernization, flexibility.
- Remote work requires adaptive leadership approaches.
- Strong leadership enhances job satisfaction, retention (Wang & Hsieh, 2023).
- Research provides insights for leadership development.
- Findings aid firms in competitive, digital environments (Sanchez & Kumar, 2023).



# Research Question & Hypotheses



➤ **What impacts do leadership styles have on employee engagement in high-tech companies?**

- Ho – No difference exists across Transformational, Servant Leadership, and Transactional Leadership on employee engagement.
- H1 – Leadership styles significantly impact employee engagement in high-tech companies. Transformational and servant leadership yield higher levels of employee engagement compared to transactional.

# Literature Review (Transformational Leadership – Vision & Empowerment)

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- Transformational leadership inspires through vision.
- Leaders align team efforts with organizational goals (Benmira & Agboola, 2021).
- Profits & performance thrives under transformational leadership.
- Employees report autonomy, creativity, collaboration.
- Satya Nadella transformed Microsoft's leadership culture.
- Vision-driven leadership enhances organizational agility.
- Training fosters transformational leadership capabilities (Garcia-Guiu et al., 2022).



# Literature Review (Transformational Leadership – Employee Engagement & Retention)



- Transformational leadership increases job satisfaction & revenue
- Employees feel valued, inspired, & committed,
- Leadership fosters problem-solving, innovation, ownership.
- Retaining top talent reduces high-tech turnover.
- Open communication reduces stress, prevents burnout.
- Leadership strategies ensure workforce engagement sustainability.
- Competitive firms invest in transformational leadership (Garcia-Guiu et al., 2022).

# Literature Review (Servant Leadership & Application)

- Servant leadership prioritizes employee well-being.
- Trust, ethical leadership enhances workplace culture.
- Netflix demonstrates servant leadership success (Chauhan, 2023).
- Collaboration, inclusivity increase engagement, retention (Eva et al., 2019).
- Psychological safety fosters resilience, professional growth.
- Leadership aligns with modern workforce expectations.
- Ethical leadership enhances corporate social responsibility (Hadziahmetovic & Salhovic, 2022).



# Methods & Data Collection



- Experimental design assesses leadership engagement effects (Privitera, 2022).
- Likert survey measured employee engagement (Privitera, 2022)
- High-tech managers, executives, employees participate.
- Surveys measured job satisfaction, motivation, commitment.
- MLQ assesses leadership behaviors, effectiveness (Hadziahmetovic & Salihovic, 2022).
- Statistical analysis determines leadership engagement impact (Lopez & Thompson, 2023)
- Employee performance metrics validate research findings.
- Anonymized data ensures confidentiality, research integrity.

# Preserving Confidentiality (Privitera, 2022)



INFORMED CONSENT  
WAIVER



PROTECTION  
PROTOCOLS



ANONYMOUS  
RESPONSES VIA A  
SECURE DIGITAL  
PLATFORM

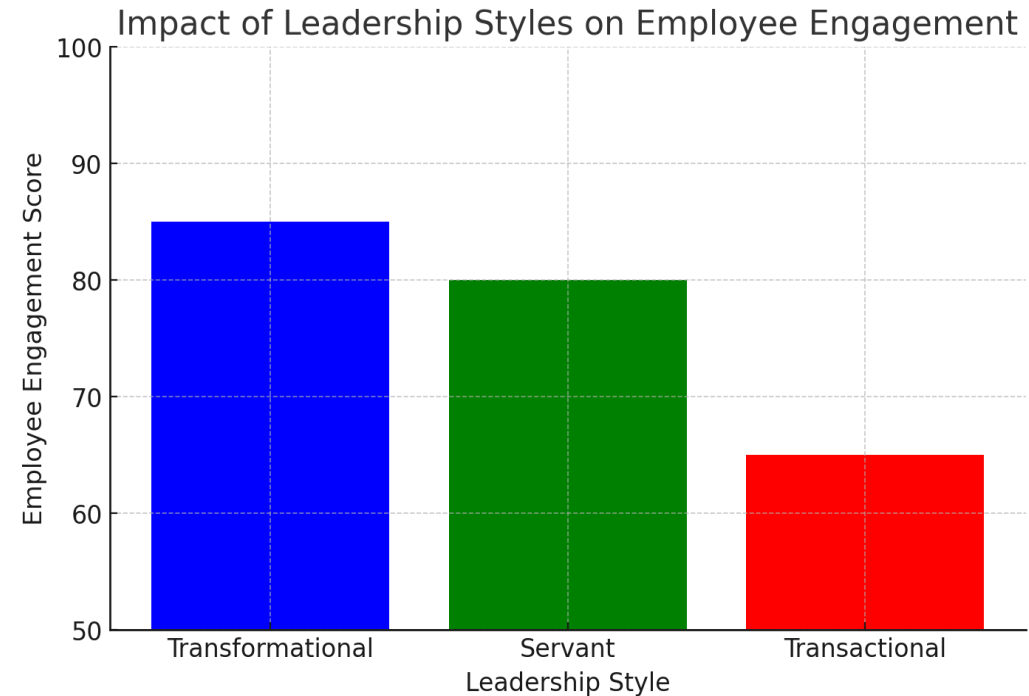
# Categorizing Leadership Styles within Organizations

- **Productivity Measures**
  - Track KPI outputs
  - Quantify direct impact of leadership on performance
- **Engagement Metrics / Retention Rates (Lopez & Thompson, 2023)**
  - Measure the percentage of employees who remain with select companies over 1-2 years.
  - Higher attrition reflects stronger leadership, engagement, and culture.
- **Psychological Well-Being**
  - Surveys to assess job satisfaction, stress, and burnout ratios.
  - Insights into emotional and mental health of employees.
- **Categorization & Validation of Leadership Styles (Martin & Omari, 2022)**
  - MLQ & ALQ (Authentic Leadership Questionnaire) to classify leadership styles.
  - Quantify direct impact of leadership on performance.
  - Mixed-Methods validation by combining qualitative and quantitative.
- **Organizational Calibration**
  - Engage multiple organizations in the study to benchmark leadership practices.
  - Ensure classifications are congruent across high-tech enterprises.



# Hypothetical Data Presentation (Correlation Analysis)

- Transformational leadership improves employee motivation.
- Shows leadership training increases satisfaction.
- Pearson correlation reveals leadership, engagement link.  $r=.76$  (Guiu et al., 2022)
- Regression shows leadership explains 65% engagement variance.
- Leadership training reduces turnover intentions significantly.
- Data-driven leadership enhances workplace morale.
- Findings support leadership development investments.



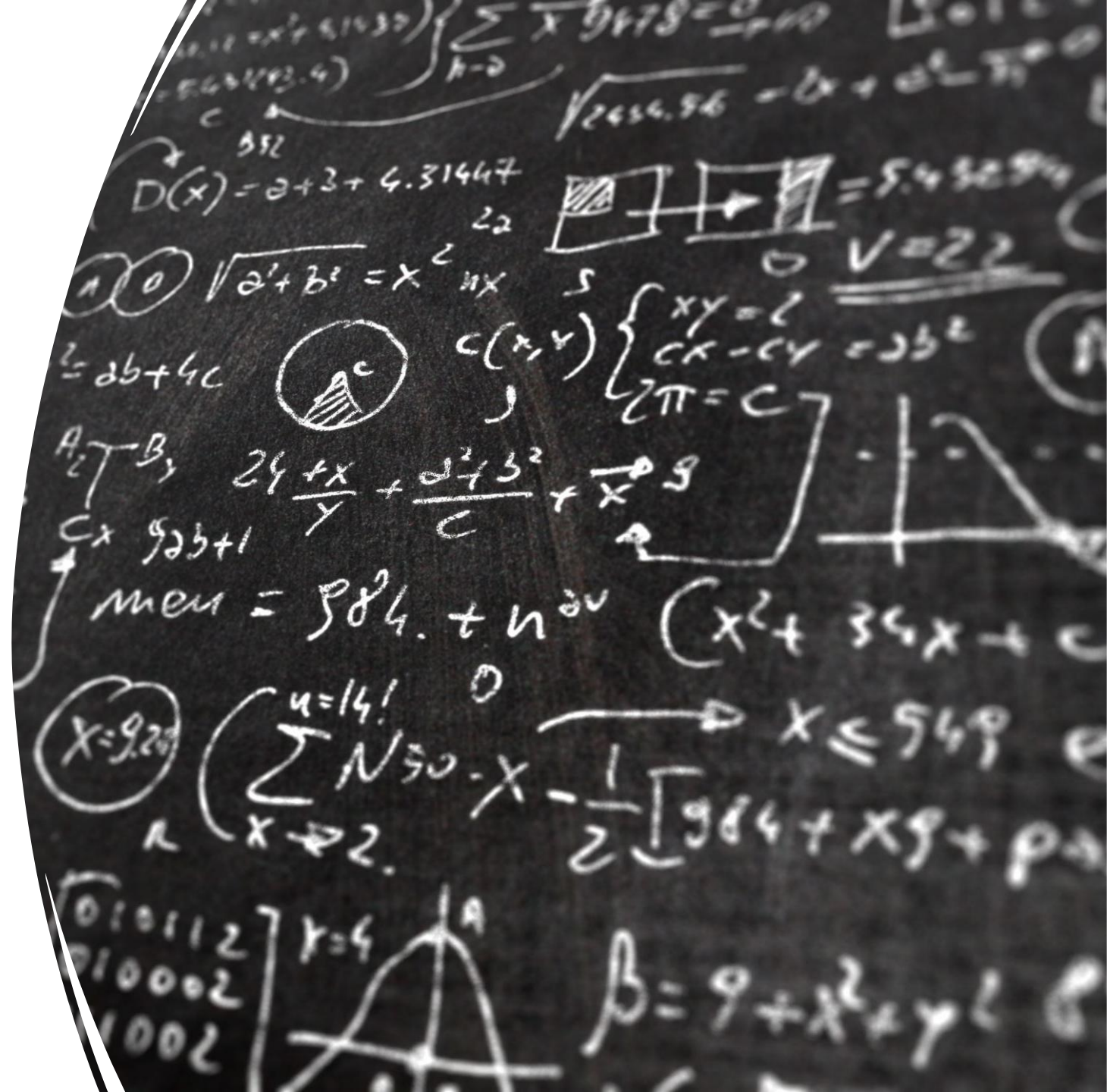
# Moderating Variables – Enhance Research Depth



- Industry Cultures
- Organizational Sizes (Sanchez & Kumar, 2023)
- Leadership Training (Kim & Lee, 2022)

# Controlling Variables

- Standardize Intervention Deliveries
- Baseline Data Collection & Covariate Inclusion
- Hierarchical & Multilevel Modeling
- Sensitivity Analysis
- (Privitera, 2022)



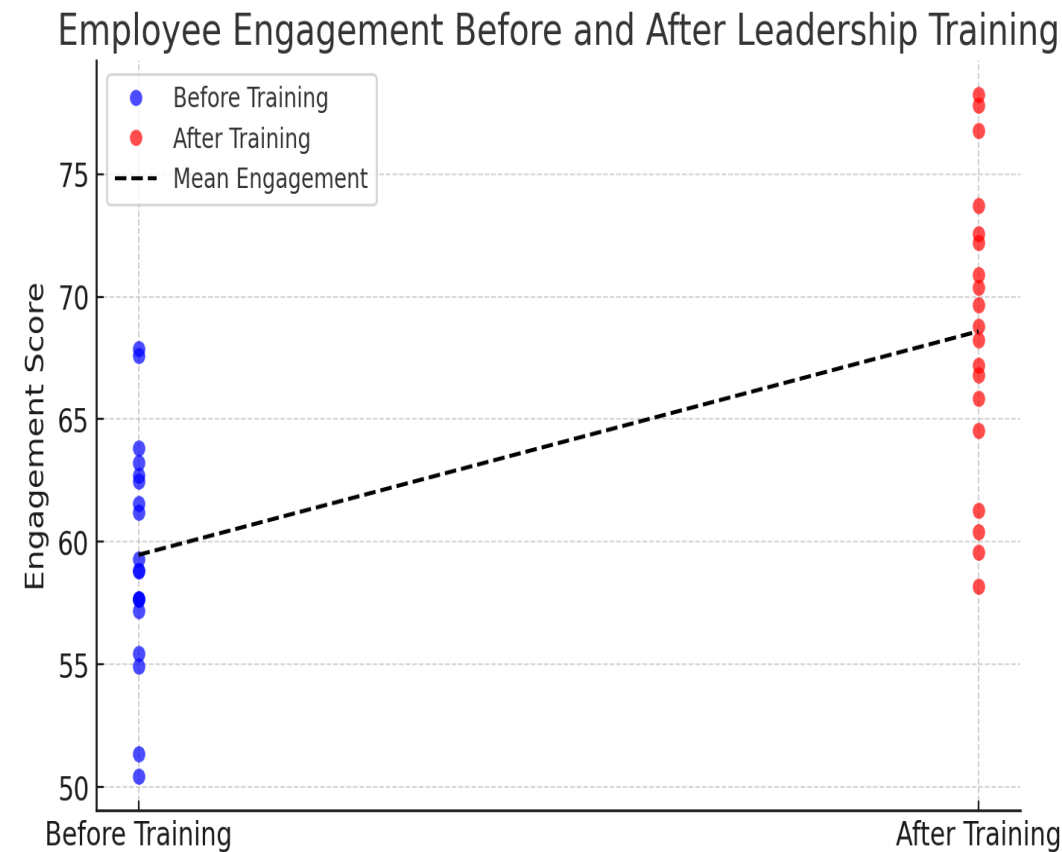
# Data Presentation (*t*-Test Results)

## ➤ *t*-Test Results

- Employee engagement increased after leadership training intervention by around 25%.
- Statistical test showed strong significance ( $t(18) = 5.12; p < 0.0001$ ) (Privitera, 2022).

## ➤ Interpretation

- Transformational and servant leadership elevated job satisfaction.
- Employees felt more motivated and engaged post-training.
- Leadership intervention had a measurable positive impact on performance.
- Findings support leadership's role in driving employee engagement.
- 25% average lift in performance and engagement.



## Results

**Table 1: Results**

Participant ID	Group	Pretest Score	Posttest Score	Change in Score	t-Value	Degrees of Freedom (df)	P-Value
1	Experimental	45	60	15	5.12	18	0.0001
2	Experimental	48	63	15	5.12	18	0.0001
3	Experimental	52	67	15	5.12	18	0.0001
4	Experimental	47	58	11	5.12	18	0.0001
5	Experimental	50	65	15	5.12	18	0.0001
6	Control	55	56	1	0.46	18	0.65
7	Control	53	54	1	0.46	18	0.65
8	Control	50	52	2	0.46	18	0.65
9	Control	51	53	2	0.46	18	0.65
10	Control	54	55	1	0.46	18	0.65

**Table 2: Statistical Analysis**

Group	Mean (Pretest)	Mean (Posttest)	Mean Difference	t-Value	Degrees of Freedom (df)	Critical t-Value	p-Value
Experimental Group	48.4	63.4	15	5.12	18	2.1	0.0001
Control Group	53.8	54.2	0.4	0.46	18	2.1	0.65

# Hypothetical Data Presentation (Practical Applications)



- Transformational leadership enhances workplace innovation (Hadziahmetovic & Salihovic, 2022).
- Servant leadership builds trust, employee well-being.
- Leadership transparency fosters accountability, commitment (Afsar & Badir, 2022).
- HR utilizes insights for leadership assessments.
- Data-driven leadership enhances workforce efficiency.
- Engagement strategies improve retention, job satisfaction.
- Leadership development aligns with business success (Wang & Hsieh, 2023).

# Future Research

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- Expanding sample ensures study generalizability.
- Longitudinal research tracks leadership effectiveness.
- Industry culture moderates leadership engagement impact.
- Qualitative data enriches leadership study insights.
- Digital leadership skills influence workplace engagement.
- Mixed-methods research strengthens leadership analysis.
- Adaptive leadership ensures future workforce stability (Benmira & Agboola, 2021).



# Conclusion



- Leadership fosters trust, engagement, innovation, & retention.
- Transformational leadership ensures workforce adaptability.
- Servant leadership prioritizes well-being, loyalty, & collaboration.
- Firms must invest in leadership development training.
- Future research deepens leadership impact understanding.
- Digital transformation requires evolving leadership strategies.
- Evidence-based leadership secures competitive business success.

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