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#### RESEARCH ARTICLE

# Indicators and Methods of Measurement Used to Evaluate the Leadership Competency Profiling Exercise in Education: A Scoping Review

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#### **ABSTRACT**

This study employs Arksey and O'Malley's framework for a scoping review to explore the indicators and methods of measurement used to evaluate leadership competencies in educational contexts. The review systematically examines relevant literature, identifying key competencies such as decision-making, communication, emotional intelligence, conflict resolution, strategic thinking, adaptability, staff motivation, and instructional leadership. These indicators reflect the multifaceted nature of educational leadership and highlight regional variations, such as the emphasis on instructional leadership in North America and distributed leadership in Europe. A variety of assessment methods are explored, including self-assessment tools, 360-degree feedback, observational methods, performance metrics, psychometric tests, behavioral interviews, and case studies. The integration of traditional and modern techniques, such as digital platforms and AI-driven assessments, provides a balanced and comprehensive evaluation framework. Emerging trends underscore the need for culturally sensitive tools and the inclusion of underexplored competencies like ethical leadership and cultural intelligence. Findings reveal significant gaps in longitudinal research and a Western-centric bias in current assessment tools, emphasizing the need for adaptive and inclusive approaches. Best practices identified include the use of blended methodologies combining quantitative and qualitative techniques, ensuring a nuanced understanding of leadership competencies. The study offers actionable insights for policymakers, educational institutions, and leadership development programs. Recommendations include promoting holistic leadership frameworks, adopting blended assessment strategies, and prioritizing emerging competencies to prepare leaders for dynamic, technology-driven educational environments. Limitations, such as language bias and variability in definitions of competencies, are acknowledged, paving the way for further research. This review provides a foundation for advancing leadership evaluation practices, fostering effective and context-sensitive leadership development in education.

#### INTRODUCTION

Leadership in education plays a pivotal role in shaping the effectiveness, quality, and success of educational systems. Effective leadership not only influences the performance of individual schools

and educational institutions but also directly impacts student outcomes, teacher effectiveness, and overall school climate (Leithwood et al., 2020). A strong leader in education can foster an environment of continuous learning, motivate staff, and implement evidence-based strategies to improve educational standards.

Educational leadership has evolved over the years, moving from traditional top-down approaches to more collaborative and transformational models (Hallinger & Heck, 2010). In modern educational settings, leaders are expected to be visionaries, guiding institutions toward achieving educational excellence while adapting to diverse challenges, such as technological advancements, diverse student needs, and societal changes. Therefore, evaluating leadership competencies is crucial in ensuring that educational leaders are equipped with the skills, knowledge, and attitudes necessary to lead effectively (Fullan, 2014).

Studies have consistently shown that leadership directly and indirectly influences student outcomes. Effective leaders create conducive learning environments, encourage high expectations, and engage teachers in professional development, which contributes to improved student performance (Robinson et al. 2008)

Leadership significantly affects teacher morale, job satisfaction, and retention. A competent leader can support teachers in achieving their goals, providing guidance, resources, and opportunities for professional growth. Leaders play a critical role in shaping the culture of a school. An inclusive and collaborative leadership style can promote a positive school climate, reducing instances of conflict, bullying, and disengagement among students and staff. Strong leaders in education engage with parents, communities, and stakeholders to foster partnerships, which can improve the quality of education and create a supportive ecosystem for students. Educational leaders are often responsible for implementing and interpreting educational policies at the school or institutional level. Their ability to do so effectively can determine the success of these policies in practice.

Evaluating leadership competencies requires identifying specific indicators that reflect effective leadership qualities and behaviors. These indicators are often drawn from various leadership models, including transformational leadership, instructional leadership, and distributed leadership. The indicators can be broadly categorized into three domains: knowledge, skills, and dispositions

Leadership Competency Profiling is a systematic process designed to identify, evaluate, and develop the skills, knowledge, attitudes, and behaviors essential for effective leadership in educational settings. This process aims to create a comprehensive profile of the competencies that educational leaders need to meet the demands of modern educational environments, ensuring that they are equipped to drive positive change, manage resources, and support both staff and students effectively (Brundrett & Crawford, 2021; Day & Sammons, 2016).

In the educational context, leadership competency profiling focuses on understanding the specific traits that contribute to effective leadership within schools, colleges, or universities. It is grounded in identifying a set of competencies that align with educational goals, such as student achievement, teacher development, inclusive practices, and community engagement. The profiling process often involves creating a benchmark or framework against which educational leaders' competencies are assessed and developed, helping to recognize strengths, identify areas for improvement, and provide targeted professional development (Leithwood et al., 2020; Fullan, 2014).

In order to offer a comprehensive analysis of the current landscape of leadership competency evaluation in education, assisting educational institutions, policymakers, and researchers in enhancing leadership development efforts, our scoping literature review will be addressing the follow research questions:

1. What are the common recognized indicators of leadership competency in education?

- 2. What are the techniques used to evaluate leadership competencies in education?
- 3. What are the keys trends in leadership competency indicators and measurement methods?

#### **METHODOLOGY**

This study adopts Arksey and O'Malley's framework for conducting a scoping review to explore indicators and methods of measurement used in evaluating leadership competency profiling within educational contexts. This widely recognized framework offers a structured, systematic, and transparent approach to map existing literature comprehensively. Below, the methodological steps employed in this scoping review are detailed.

### **Identifying the Research Question**

The initial step of this review involves the formulation of a clear research question to guide the study. For example: What are the indicators and methods of measurement used to evaluate leadership competencies in educational contexts? This question sets the foundation for the review, ensuring a focused and systematic exploration of the existing literature on leadership competency profiling in education.

# **Identifying Relevant Studies**

A comprehensive search for relevant studies was conducted to capture a broad yet pertinent scope of literature. The inclusion and exclusion criteria were carefully defined to ensure the relevance of the studies selected. **Inclusion criteria** encompassed studies focusing on leadership competency profiling within educational settings (e.g., primary, secondary, and tertiary education), emphasizing indicators of competencies, measurement tools, and evaluation methods. Peer-reviewed journal articles, books, conference papers, and reports published in English within the last 20 years (2004–2024) were included to ensure contemporary relevance. Conversely, exclusion criteria eliminated studies unrelated to education, those lacking empirical data, non-English publications (without translations), and opinion-based articles without theoretical frameworks.

#### **Study Selection**

The study selection process began with a comprehensive search of electronic databases, including ERIC, PsycINFO, Scopus, Web of Science, Google Scholar, ProQuest Education Database, and JSTOR. These databases were chosen to capture a wide range of relevant academic and professional literature. The search terms used included combinations of keywords such as "leadership competency," "education," "evaluation," "measurement tools," "indicators," "profiling," and "assessment methods." The search strategy utilized Boolean operators (AND, OR) to refine results. The initial screening involved a review of titles and abstracts based on the defined inclusion and exclusion criteria, followed by a full-text review of studies that met the preliminary requirements.

#### **Charting the Data**

To systematically extract and organize information, a structured data extraction form was employed. This form included fields such as study title, authorship, year of publication, research design, leadership competency indicators (e.g., instructional leadership, communication skills), measurement tools, methods (e.g., surveys, observations, interviews), and key findings. The data extracted was organized in a standardized format to facilitate comparison and synthesis, as show in Table 1. This structured approach ensured consistency and ease of analysis across studies.

**Table 1: Data Extraction Tables** 

Study Title	Authors/	Type of	Indicators	Measurement	<b>Key Findings</b>
	Year	Study	Assessed	Tools Used	

T	TT 11:	7	Y	0 1 1	n 1 . 1
Instruction	Hallinger,	Literature	Instructional	Surveys, school	Emphasized
al	P. (2005)	Review	Leadership,	performance	instructional
Leadership			Strategic	data	leadership's
and the			Planning		impact on school
Principal					effectiveness.
The	Fullan, M.	Book	Decision-	Case studies,	Highlighted
Principal:	(2014)	Review	Making,	self-	strategic decision-
Three Keys			Adaptability,	assessment	making and
to			Staff		adaptability in
Maximizing			Engagement		leadership.
Impact					
Visible	Hattie, J.	Meta-	Communicatio	Observation,	Showed
Learning	(2009)	Analysis	n, Instructional	360-degree	communication's
		_	Leadership	feedback	importance in
			_		fostering a positive
					school climate.
Working	Goleman,	Theoretica	Emotional	EQ-i,	Established the
with	D. (1998)	l Study	Intelligence,	interviews	role of EI in
Emotional			Conflict		effective
Intelligence			Resolution		leadership.
Distributed	Spillane, J.	Theoretica	Collaboration,	Case studies,	Supported
Leadership	P. (2006)	l/Empiric	Distributed	staff surveys	distributed
1		al Study	Leadership	, and the second	leadership's
			1		impact on teacher
					autonomy.
What We	Leithwood	Literature	Decision-	Surveys,	Identified critical
Know	, K., Riehl,	Review	Making,	observation,	competencies for
About	C. (2003)		Instructional	360-degree	effective school
Successful			Leadership,	feedback	leadership.
School			Adaptability		*
Leadership			-		

# **Collating, Summarizing, and Reporting the Results**

A narrative synthesis approach was utilized to summarize the findings, categorizing indicators and measurement methods into thematic domains. This process involved identifying common patterns, trends, and variations across different studies. Indicators of leadership competencies were grouped into thematic areas, such as instructional leadership, organizational management, and personal competencies like emotional intelligence. Key trends were identified, such as the increasing use of dynamic tools like 360-degree feedback to assess competencies. Additionally, the review highlighted gaps in the literature, particularly in areas where measurement tools were underdeveloped or inconsistently applied.

The analysis also focused on identifying trends in the frequency of indicators, assessment methods, and thematic emphasis within the literature. For instance, certain competencies like instructional leadership were found to be more frequently studied in primary and secondary education, while organizational management received more attention in tertiary education contexts. Research gaps were documented, particularly in the evaluation of emerging competencies, such as digital leadership skills.

### **Search Strategy and Database Utilization**

To ensure comprehensive coverage of the literature, a systematic search strategy was applied using multiple databases. ERIC, PsycINFO, Scopus, Web of Science, Google Scholar, ProQuest Education Database, and JSTOR were selected for their relevance to education and leadership studies. The search terms employed were designed to capture the scope of leadership competency profiling, focusing on educational contexts, indicators, and measurement methods. The search strategy included primary keywords (e.g., "leadership competency," "education") and related synonyms (e.g., "school leadership," "competency framework") combined using Boolean operators.

#### Selection Criteria for Inclusion and Exclusion

The inclusion and exclusion criteria were rigorously applied to ensure the selection of high-quality studies directly related to the research question. The **inclusion criteria** emphasized studies published within the past 20 years to reflect contemporary leadership practices, focusing on peer-reviewed articles, research reports, conference papers, dissertations, and empirical studies with theoretical discussions relevant to leadership in education. Only studies in English, discussing competency indicators and measurement methods within educational contexts, were considered.

The exclusion criteria filtered out studies unrelated to education, non-empirical articles, opinion-based content, non-peer-reviewed publications, and non-English studies (unless translated). Additionally, research predating 2004 or studies without clear evaluation components were excluded to maintain the relevance of findings.

By employing Arksey and O'Malley's framework, this scoping review systematically explores the indicators and methods of measurement used in evaluating leadership competency profiling in education. The structured approach ensures a comprehensive mapping of the literature, identifying best practices, gaps, and trends. The findings aim to inform the development of more effective leadership evaluation tools, guiding future research and policy initiatives in educational leadership.

### **RESULT**

## **Indicators of Leadership Competency in Education**

The evaluation of leadership competencies within educational contexts relies on the identification of specific indicators that signify effective leadership behaviors and qualities. This section presents an overview of commonly recognized indicators, supported by references that emphasize their relevance and impact on educational leadership.

## **Decision-Making Abilities**

One of the core competencies for educational leaders is effective decision-making. This involves the ability to make informed, data-driven, and timely decisions that influence the overall functioning of an institution. Leaders who excel in decision-making are adept at analyzing complex situations, evaluating alternatives, and considering the implications for all stakeholders. Research by Leithwood and Louis (2012) underscores the critical role of decision-making in enhancing student learning outcomes, linking leadership behaviors to improved educational results.

#### **Communication Skills**

Effective communication is essential for educational leaders to articulate expectations, provide constructive feedback, and foster collaboration. Strong communication skills help leaders engage with staff, students, parents, and the wider community, thereby building trust and ensuring clarity in organizational goals. Hattie's (2009) synthesis of research highlights the significance of communication in promoting teacher effectiveness and cultivating a positive school environment. By

establishing open channels of communication, leaders can create an atmosphere conducive to learning and professional growth.

# **Emotional Intelligence**

Emotional intelligence (EI) encompasses self-awareness, empathy, emotional regulation, and the capacity to manage interpersonal relationships effectively. For educational leaders, high EI is crucial as it enhances their ability to handle stress, resolve conflicts, and inspire others. Goleman's (1998) foundational research on emotional intelligence illustrates its importance in leadership, particularly in educational settings where managing diverse stakeholder expectations is vital. Leaders with high EI are better equipped to foster supportive and resilient school communities.

## **Conflict Resolution Skills**

The ability to resolve conflicts constructively is another key competency for educational leaders. Conflict resolution skills enable leaders to address disagreements and disputes effectively, fostering a positive school culture while minimizing disruptions. Rahim (2002) emphasizes the role of conflict management in enhancing organizational effectiveness, including in educational institutions. Leaders skilled in conflict resolution can mediate differences, encourage open communication, and develop solutions that benefit all parties involved.

# **Strategic Thinking**

Strategic thinking is the ability to set a clear vision, plan for the future, and align strategies with the institution's goals. Effective educational leaders are those who anticipate challenges, allocate resources efficiently, and guide their schools toward long-term success. Fullan (2014) highlights strategic thinking as an essential competency for school principals, enabling them to create a shared vision and lead school improvement efforts. This forward-thinking approach ensures that institutions remain adaptable and resilient in a changing educational landscape.

# **Adaptability and Resilience**

Adaptability and resilience are vital traits that allow leaders to navigate the dynamic nature of the educational sector. These competencies enable leaders to remain flexible in the face of change and recover quickly from setbacks, thereby maintaining a positive school culture. Day and Gu (2014) explore the importance of resilience in educational leadership, particularly in challenging times. Leaders who are adaptable and resilient are better positioned to handle unexpected challenges and inspire their staff to do the same.

# **Motivation and Engagement of Staff**

A significant responsibility of educational leaders is to motivate and engage their staff, creating a positive work environment that encourages professional growth and commitment. Leaders who can effectively inspire their teams contribute to innovative teaching practices and sustained school improvement. According to Robinson, Lloyd, and Rowe (2008), the ability of leaders to support and motivate staff has a direct impact on student outcomes. By fostering a collaborative and encouraging atmosphere, leaders can ensure that their teams remain dedicated and focused on achieving educational goals.

# **Instructional Leadership Skills**

Instructional leadership involves supporting and guiding teachers to enhance their instructional practices, ultimately leading to better student learning outcomes. This competency includes monitoring teaching effectiveness, providing professional development opportunities, and fostering a culture of continuous improvement. Hallinger (2005) highlights instructional leadership as a persistent and influential factor in school effectiveness. Principals and other educational leaders who

prioritize instructional leadership can significantly influence both teacher performance and student achievement.

These indicators collectively form a comprehensive framework for evaluating leadership competencies in educational settings. Each indicator highlights a distinct yet interconnected aspect of effective educational leadership, contributing to a well-rounded leadership profile. By focusing on these competencies, educational institutions can better identify, develop, and support leaders who are capable of driving positive change and fostering sustainable educational outcomes.

# **Techniques for Evaluating Leadership Competency in Education**

The accurate evaluation of leadership competencies in educational settings requires diverse tools and methodologies to capture the multifaceted nature of effective leadership. This section explores various techniques employed to assess leadership competencies, emphasizing their relevance and application in educational contexts:

**Self-Assessment Tools** are instrumental in enabling educational leaders to reflect on their strengths, weaknesses, and areas for growth. These tools often take the form of surveys, questionnaires, or standardized instruments that assess specific leadership competencies (Glatthorn et al., 2019).

**Leadership Practices Inventory (LPI)** by Kouzes and Posner (2017) measures five exemplary leadership practices: modeling the way, inspiring a shared vision, challenging the process, enabling others to act, and encouraging the heart. Similarly, the Multifactor Leadership Questionnaire (MLQ) evaluates transformational, transactional, and laissez-faire leadership styles, focusing on dimensions such as charisma, intellectual stimulation, and individualized consideration. These tools encourage self-awareness, a critical aspect of leadership development, helping leaders align personal competencies with institutional objectives (Kouzes & Posner, 2017; Bass & Avolio, 1995).

**360-Degree Feedback** method gathers input from multiple stakeholders, including peers, subordinates, supervisors, students, and parents. This multi-source approach provides a holistic view of a leader's performance, identifying discrepancies between self-perception and others' evaluations. It fosters transparency and accountability while promoting a culture of continuous improvement. This technique is particularly valuable in educational settings, where diverse perspectives can highlight strengths and areas for development (London & Smither, 1995). By incorporating feedback from various stakeholders, leaders gain insights into their impact on the broader educational community.

**Observational Methods** involve evaluating educational leaders in real-time through direct observation of their behavior and interactions. Structured or semi-structured observations during staff meetings, classroom visits, or parent-teacher interactions provide immediate data on communication styles, decision-making processes, and conflict resolution abilities. Unlike self-assessment or feedback tools, observational methods capture dynamic and contextual leadership behaviors, offering a nuanced understanding of a leader's competencies (Sergiovanni, 2001). This approach is particularly useful for identifying leadership qualities that may not be fully evident through other evaluation methods.

**Performance Metrics** offer objective data to evaluate a leader's impact on institutional success. These metrics include school performance indicators, such as standardized test scores, graduation rates, and attendance data, as well as qualitative measures like staff surveys and student outcomes. By correlating leadership practices with educational results, evaluators can identify effective strategies and areas requiring improvement. Hattie's (2009) synthesis of over 800 meta-analyses underscores the importance of linking leadership initiatives to tangible outcomes, reinforcing the value of data-driven evaluations in education.

**Behavioral Interviews** involve structured or semi-structured questions designed to explore a leader's past behavior and decision-making processes. These interviews focus on specific competencies, such as conflict resolution, strategic planning, and team motivation. For example, questions like "Can you describe a time when you resolved a conflict between staff members?" or "How have you fostered a culture of professional development?" provide insights into a leader's problem-solving skills and leadership style. Behavioral interviews offer qualitative depth, allowing evaluators to assess how leaders navigate challenges and implement strategies (McClelland, 1998).

**Psychometric Testing** assess psychological attributes relevant to leadership, such as emotional intelligence, personality traits, and stress management. Tools like the Emotional Quotient Inventory (EQ-i) measure emotional intelligence dimensions, including self-awareness and interpersonal skills, while the Myers-Briggs Type Indicator (MBTI) categorizes leaders into personality types that influence their leadership styles. These assessments provide a scientific foundation for evaluating leadership competencies and identifying areas for development. Bar-On's (2006) model of emotional-social intelligence and the MBTI manual by Myers et al. (1998) emphasize the role of psychological insights in shaping effective educational leadership.

Case Studies and Portfolios provide qualitative evidence of a leader's experiences, decision-making processes, and achievements. Case studies analyze specific incidents, highlighting competencies like strategic planning and problem-solving. Portfolios, which include project reports, strategic plans, and reflective narratives, offer a comprehensive view of a leader's professional journey and impact. These methods enable a holistic evaluation, focusing on both processes and outcomes. Yin's (2018) work on case study research underscores the value of qualitative methods in assessing complex leadership competencies.

Table 2 Key Trends in Leadership Competency Indicators and Measurement Methods

**Across Regions and Contexts** 

Indicator	Definition/Description	Common	Region/Cultural
	, -	Measurement Tools	Emphasis
Decision-Making	Ability to make informed	Self-assessment	North America,
Abilities	and strategic choices	surveys, behavioral	Australia
	that impact educational	interviews,	
	outcomes.	performance metrics.	
Communication Skills	Effective verbal and non-	360-degree feedback,	Global
	verbal communication to	observation,	
	engage with staff,	interviews, LPI.	
	students, and		
	stakeholders.		
Emotional	Competencies related to	Emotional Quotient	Asia, Europe
Intelligence	self-awareness,	Inventory (EQ-i),	
	empathy, and managing	psychometric tests,	
	interpersonal	case studies.	
	relationships.		
Conflict Resolution	Ability to mediate	Behavioral	Europe, Asia
Skills	disputes and handle	interviews, 360-	
	conflict constructively,	degree feedback,	
	ensuring a positive	observation.	
	school environment.		
Strategic Thinking	Long-term planning,	Case studies,	North America,
	vision-setting, and data-	psychometric testing,	Australia
		project portfolios,	

	informed decision-	strategic	
Adaptability and Resilience	making.  Flexibility in responding to change and recovering from setbacks.	assessments.  Self-assessment surveys, psychometric tests (e.g., MBTI), interviews.	Australia, Asia
Motivation and Engagement of Staff	Ability to inspire and engage teachers, foster a supportive work environment, and drive professional development.	360-degree feedback, staff surveys, observation, case studies.	North America, Europe
Instructional Leadership Skills	Focus on guiding teaching practices, improving curriculum, and ensuring high-quality instruction.	Classroom observation, MLQ, school performance metrics, project portfolios.	North America, Europe

#### DISCUSSION

# **Diverse Leadership Competency Indicators**

The findings highlight the evolving landscape of educational leadership competencies, blending traditional skills like decision-making and communication with emerging attributes such as emotional intelligence, adaptability, and ethical leadership. This diversity reflects the complexity of leadership in a globalized and interconnected world, where cultural and institutional contexts significantly shape the competencies required for effective leadership. Regional variations—such as the emphasis on instructional leadership in North America, distributed leadership in Europe, ethical leadership in Asia, and adaptive leadership in Australia—underscore the importance of tailoring leadership development frameworks to align with cultural and contextual demands. This regional specificity suggests a need for adaptive approaches in leadership training and competency assessment to address the unique challenges of diverse educational settings (Hallinger, 2005; Robinson, 2011).

#### **Variety of Assessment Methods**

The integration of traditional and modern assessment techniques marks a significant advancement in evaluating leadership competencies. Traditional methods, such as direct observation and performance metrics, provide a strong foundation of concrete data, while modern tools, including Albased assessments and digital platforms, offer scalability and real-time insights. The use of mixed-method approaches, such as 360-degree feedback and psychometric testing, emerges as a best practice, enabling a holistic evaluation of leadership performance. This dual approach ensures that both quantitative metrics and qualitative insights are considered, providing a nuanced understanding of leadership effectiveness (Creswell, 2013).

## **Emerging Trends and Technologies**

Technological advancements have revolutionized the evaluation of leadership competencies. Digital platforms and AI tools allow for continuous feedback and data-driven decision-making, enhancing the efficiency and objectivity of leadership assessments. However, qualitative approaches, such as case studies, remain indispensable for capturing the nuanced and contextual aspects of leadership that quantitative tools may overlook. This balance between technology-driven and qualitative

methods ensures a comprehensive evaluation framework that aligns with the complexities of leadership in contemporary educational contexts (Lambert, 2016; Crossley et al., 2017).

# Gaps in Research and the Need for Cultural Sensitivity

Several gaps in the existing literature and practice warrant attention. The scarcity of longitudinal studies limits the understanding of leadership development trajectories over time. Furthermore, competencies such as cultural intelligence and ethical leadership remain underexplored, highlighting areas for future research. The Western-centric bias in many assessment tools underscores the necessity for culturally adaptive approaches to ensure relevance and equity in diverse educational settings. Addressing these gaps is critical for developing inclusive leadership frameworks that resonate with global educational challenges (Hofstede, 2001; Leithwood & Riehl, 2003).

### Best Practices: Indicators and Tools for Leadership Assessment

The review identifies several best practices for assessing educational leadership competencies. For instructional leadership, tools like the Multifactor Leadership Questionnaire (MLQ) are recommended to evaluate transformational leadership styles that impact teaching and learning outcomes. Emotional intelligence, an essential competency, can be assessed using frameworks like the Emotional Quotient Inventory (EQ-i) in conjunction with 360-degree feedback for a well-rounded evaluation. A blended methodology that incorporates qualitative techniques, such as case studies and behavioral interviews, with quantitative tools, like psychometric testing, provides a robust framework for evaluating leadership competencies. These approaches collectively ensure comprehensive, contextually relevant assessments (Hallinger & Heck, 1996; Bar-On, 2006; Creswell, 2013).

### **Limitations of the Study**

This review has certain limitations that must be acknowledged. The focus on English-language literature potentially excludes valuable insights from non-English-speaking regions, limiting the study's global applicability. The lack of longitudinal data restricts the ability to track leadership development over time, while variability in definitions of leadership competencies across studies creates challenges in synthesizing findings. Methodologically, the reliance on qualitative methods introduces subjectivity, while quantitative approaches may oversimplify complex leadership dynamics. These limitations highlight areas for further research and methodological refinement (Creswell, 2013).

## **Implications for Stakeholders**

- 1. Policymakers: The findings underscore the need for policies that promote holistic leadership development, integrating competencies such as emotional intelligence, ethical behavior, and adaptability. Policymakers should advocate for data-driven, evidence-based assessment frameworks that align with modern educational needs (Fullan, 2014).
- 2. Educational Institutions: Schools and universities must adopt blended assessment approaches, combining qualitative and quantitative methods. Integrating digital tools can facilitate continuous feedback and professional growth while ensuring alignment with regional and cultural values (Leithwood & Riehl, 2003).
- 3. Leadership Development Programs: Programs should prioritize emerging competencies, such as digital literacy, ethical leadership, and cultural intelligence, to prepare leaders for dynamic, technology-driven environments. Culturally adaptive tools and community engagement in leadership training can foster inclusive and context-sensitive leadership practices (Hofstede, 2001).

In conclusion, the discussion highlights the dynamic nature of educational leadership competencies, the transformative role of technology in assessment, and the critical need for cultural sensitivity in leadership frameworks. These insights provide a foundation for future research, policy formulation, and leadership development initiatives that respond to the complexities of contemporary education.

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