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# Theory Building from Cases: Opportunities, Challenges, and Strategies

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**ABSTRACT:** *This study explores the opportunities, challenges, and strategies associated with theory building through case-based research. Theory building is a fundamental aspect of academic research, offering structured frameworks for understanding, explaining, and predicting phenomena across various disciplines. Case studies serve as a vital tool in qualitative research for generating theories grounded in real-world contexts. However, the process of developing theories from case studies presents methodological challenges, including concerns about generalizability, researcher bias, and methodological rigor. By examining key methodologies such as Eisenhardt's systematic approach, Yin's replication logic, and Stake's constructivist framework, this study identifies best practices for enhancing the credibility and applicability of case-based theories. The research highlights the unique advantages of case studies, including their ability to generate deep, context-specific insights that contribute to theory development. At the same time, it acknowledges challenges such as ensuring methodological robustness, minimizing biases, and addressing limitations in generalizability. To mitigate these challenges, the study proposes the use of triangulation, analytical generalization, and iterative data validation to enhance research credibility. Additionally, it emphasizes the role of cross-disciplinary collaboration and stakeholder engagement in increasing the practical utility of case-based theories. The findings provide valuable guidance for researchers seeking to bridge the gap between empirical data and theoretical abstraction, ultimately contributing to the advancement of qualitative research methodologies. By systematically addressing the complexities of theory building through case studies, this study offers a structured approach for generating impactful, contextually rich, and broadly applicable theoretical contributions.*

***Key words****: Analytical generalizability, case study, generalizability, theory building, triangulations.*

## 1. Introduction

Theory building is a foundational endeavor in academic research, contributing to the advancement of knowledge across disciplines. Among various methodologies, case-based research has emerged as a powerful approach for developing robust and contextually rich theories. Case studies provide an opportunity to investigate phenomena within their real-life contexts, offering insights that are often difficult to achieve through purely quantitative methods (Armour & Williams, 2022). This paper explores the concept of theory building from cases, examining the opportunities it offers, the challenges it entails, and strategies for addressing them. By analyzing this methodology, the paper aims to provide a nuanced understanding of how researchers can leverage case studies to advance theory while navigating the complexities inherent to this approach.

### *1.1. Problem Statement*

The development of robust theories is a cornerstone of academic research, providing a framework for understanding, explaining, and predicting phenomena across various disciplines. However, the process of theory building, particularly from case studies, remains fraught with challenges. Case-based research is often

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criticized for its perceived lack of generalizability, methodological rigor, and potential for researcher bias. While case studies offer rich, contextual insights, their ability to contribute to theoretical advancements is frequently questioned due to the diversity in approaches, lack of standardized guidelines, and the inherently interpretative nature of qualitative data.

In addition, the increasing complexity of societal and organizational challenges requires theories that are nuanced and adaptable. Traditional positivist approaches often fall short in addressing these dynamic realities, necessitating alternative methodologies like case-based research. Yet, researchers struggle to bridge the gap between the depth of case studies and the abstraction required for theory development. This gap underscores a critical issue in academia: how can researchers effectively leverage case studies to generate theories that are both contextually grounded and broadly applicable? Addressing this issue is essential to advancing knowledge across disciplines and ensuring that theory building keeps pace with the evolving demands of research and practice (Zeithaml et al, 2020).

### *1.2. Purpose of the Study*

The purpose of this study is to explore the opportunities, challenges, and strategies associated with building theory from case studies. By examining the methodological underpinnings, practical applications, and theoretical contributions of case-based research, this study aims to provide a comprehensive understanding of how case studies can serve as a powerful tool for theory development. The research seeks to identify best practices, methodological innovations, and analytical frameworks that can enhance the rigor and relevance of case-based theory building.

Specifically, this study aims to:

1. Highlight the unique advantages of case-based research in uncovering rich, context-specific insights that contribute to theory development.
2. Identify and analyze the key challenges researchers face in using case studies for theory building, including issues of generalizability, methodological rigor, and potential biases.
3. Propose strategies and frameworks to address these challenges, thereby enhancing the credibility and utility of case-based theories.
4. Provide practical guidance for researchers and practitioners seeking to leverage case studies for theoretical advancements in their respective fields.

By achieving these objectives, the study contributes to the growing body of literature on qualitative research methodologies and offers actionable insights for researchers aiming to bridge the gap between empirical data and theoretical abstraction.

### *1.3. Significance of Study*

This study has significant implications for both academic research and practical applications. First, it addresses a critical gap in the literature by systematically examining the process of theory building from case studies. While existing research highlights the potential of case studies for generating theories, there is a lack of comprehensive frameworks and strategies to guide researchers in this endeavor. By providing a structured approach to case-based theory building, this study contributes to methodological advancements and enhances the credibility of qualitative research.

Second, the study underscores the practical relevance of case-based theories in addressing complex, real-world challenges. Theories developed from case studies are often deeply contextual and resonate with practitioners, policymakers, and organizations. By improving the process of theory building from cases, this study facilitates the development of theories that are not only academically rigorous but also practically applicable. This dual focus on academic rigor and practical relevance ensures that the study's contributions extend beyond the confines of academia.

Furthermore, the study fosters interdisciplinary collaboration by providing insights that are relevant across various fields, including business, healthcare, education, and social sciences (Kuran, 2024). As case studies are widely used across disciplines, the findings of this study have the potential to influence research practices and theoretical advancements in diverse areas. Additionally, by addressing the challenges of generalizability and methodological rigor, the study enhances the credibility of case-based research, encouraging its adoption and integration into mainstream research methodologies.

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### *1.4. Specific Research Questions*

To achieve the objectives outlined above, this study seeks to address the following research questions:

1. What are the unique opportunities presented by case studies for theory building?
2. What are the key challenges and limitations researchers face in using case studies for theory development?
3. How can researchers address issues of generalizability, methodological rigor, and potential biases in case-based research?
4. What strategies and frameworks can enhance the effectiveness of case studies in contributing to theoretical advancements?
5. How can the insights gain from case-based theories be effectively translated into practical applications across various disciplines?

By addressing these questions, the study aims to provide a comprehensive understanding of the process, challenges, and potential of theory building from case studies. The findings will serve as a valuable resource for researchers, educators, and practitioners seeking to leverage case-based research for generating impactful and actionable theories.

## 2. Literature Review

### *2.1. Building Theory from Case Studies*

According to Hollstein & Kumkar's (2021), theory building from case studies is an essential qualitative research approach. The approach allows researchers to construct knowledge from observations in actual settings. Case studies facilitate the integration of empirical observations and theoretical concepts, thus making research findings more usable in practice. The approach is criticized for its lack of generalizability, methodological strictness, and researcher bias. According to Guetterman et al. (2021), the different frameworks guide the conduct of case study research with credibility. They include the systematic method by Eisenhardt, the case study design by Yin (2018), the constructivist approach by Stake, the theory of analytical generalization, and triangulation methods. Each of these methods aims at different facets of case study research. An integration of these methods makes conclusions from case studies more credible and useful in different fields (Vos & Van, 2021).

### *2.2. Building Theories Utilizing a Systematic Method*

The systematic method of Eisenhardt (2021) is a very established multiple-case analysis theory-building case study research technique. According to this approach, studying several cases rather than one is mandatory because cross-case comparison makes conclusions at the theoretical level more valid and generalized. The systematic process of this methodology ensures outcomes well-supported, yet generalizable in the parameters of qualitative studies (Barnett et al., 2025). By accurate articulation of research objectives, selection of suitable cases, and collection of data from diverse sources, researchers can construct the credibility of their research. Iteration is another element of Eisenstadt's methodology in which researchers continuously verify data against emerging concepts (Khan et al., 2021). According to Hickman et al. (2022), continuous conversation between data and theory allows for refinement and improved understanding and makes the research dynamic and interactive to new knowledge. In addition, Eisenstadt advocates for the application of qualitative and quantitative data since the two approaches combined provide more accuracy and richness in carrying out case study research. However, there are others who are of the opinion that exclusive adherence to systematic stages tends to lose flexibility and consequently discourage the investigation of emergent findings. Nevertheless, Eisenstadt's method is commonly applied as it is firmly methodical and has the potential to produce well-supported theoretical contributions in qualitative studies (Alam, 2021).

### *2.3. Case Study Research as Theory Structure*

According to Sibbald et al. (2021), Yin (2018)'s case study research framework presents a structured procedure in qualitative research that is true and systematically rigorous. He groups case study research into exploratory, descriptive, and explanatory types. Sadeghi et al. (2021) stated that exploratory case studies enable the development of research questions and establish the foundation for future research. Descriptive case studies provide rich descriptions of phenomena in their naturalistic context. Explanatory case studies focus on cause and effect, thereby enabling the understanding of complex processes. According to

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Schumacher et al. (2021), clear definition of the research focus before data collection, Yin (2018)'s approach helps researchers remain focused and avoid extraneous diversions. Among the key characteristics of Yin's approach is the use of more than one source of evidence, such as interviews, documents, and observations, in attempting to increase the validity of findings. There is also proposed replication logic, under which multiple-case studies can be treated similarly to controlled experiments. This increases the reliability of findings by ensuring that results are consistent across cases (Kasim et al., 2022). Yet another central principle is the chain of evidence, which provides transparency and credibility to research. Some have claimed that Yin's process is overly formalized and fails to reflect the richness of real cases. Despite such criticism, his process is among the most widely accepted methods for ensuring rigor in case study research (Wu et al., 2022).

### *2.4. The Role of Constructivism in Case Study Research*

According to Flemming & Noyes (2021), Stake's constructivist case study is concerned with the subjective meaning that individuals bring to their experience. In contrast to structured techniques with a set format, the technique is based on personal interpretation and place. Stake thinks one should understand how individuals view the world so that one can create meaningful results. This methodology is particularly beneficial in psychology, education, and social sciences, where perceptions and human interaction are accountable for producing results (Englander & Morley, 2023). According to Christian et al. (2021), instead of preconceived theory application, the constructivist research method allows the researchers to ask questions about the emerging themes naturally and adapt the study plan as per the emerging case knowledge. According to Denny & Weckesser (2022), flexibility is one of the key strengths of this approach as it allows researchers to acquire the inherent richness in real life in studies. Its opponents, however, identify some of the issues associated with constructivist case studies. According to Mwita, (2022), the absence of well-delineated directions, becomes challenging to achieve methodological purity and hence reliability and consistency. Besides, faith in personal experience increases researcher bias because the researcher's and participants' assumptions can foretell results. With such limitations, Stake's constructivist approach remains very valuable when carrying out complex human acts to come up with deep, situation-specific conclusions bound methodologies may be deemed incomplete (Rieger et al., 2022).

### *2.5. Applying Analytical Generalization in Case Study Research*

According to Goertz & Haggard (2023), generalization is a major issue in case study research since evidence drawn from a few cases does not necessarily generalize to large populations. Analytical generalization provides an answer to statistical generalization through the extrapolation of theoretical knowledge beyond specific cases. According to Safari et al. (2023), in contrast to statistical generalization supported through large samples and probability-based inference, analytical generalization involves linking case study findings with theories. This allows researchers to formulate and refine theoretical concepts from empirical evidence in the real world, thereby making case study research more relevant to wider academic debate. According to Pilcher & Cortazzi (2024), for analytic generalization to be effective, researchers must clearly outline how their findings advance theoretical thinking. This requires a strong approach to methodology, so conclusions are properly supported with empirical evidence. Conducted well, analytical generalization enhances the external validity of case study research to a level where findings can be applied outside the studied cases. According to Younas et al. (2023), case studies are, nonetheless, purported by other scholars to be context-bound and therefore cannot assist in the construction of generalizable theories. Nevertheless, analytical generalization remains a standard method in qualitative research. By the explicit articulation of the connections between theoretical abstractions and empirical facts, researchers may enhance the contribution of case study research in building knowledge across various disciplines (Bennett & Braumoeller, 2022).

### *2.6. Improving Research Credibility through Triangulation*

According to Donkoh and Mensah (2023), triangulation is among the most significant techniques for improving the credibility and reliability of case study research. It involves the application of multiple sources of data, research methods, or theoretical perspectives to support research evidence. According to Sridharan (2021), it makes sure that inferences are not drawn from one source of data, thereby precluding the likelihood of bias and improving the validity of findings. Through the integration of different perspectives, researchers

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can form a more accurate picture of the phenomenon being studied, thereby making their findings more credible and useful. Denzin identifies four broad categories of triangulation: methodological, data, investigator, and theoretical triangulation. Methodological triangulation involves the use of different research methods, for example, interviews, observation, and document analysis, in studying the same phenomenon. Data triangulation requires collecting data from different sources with the aim of cross-verifying findings (Turnbull, et al., 2021). Investigator triangulation refers to multiple researchers analyzing the same data to prevent individual researcher bias. Theory triangulation involves several theoretical perspectives when analyzing the data, thereby providing a broader scope of analysis. While good, triangulation is time-consuming and expensive. Data collection and analysis from multiple sources takes so much time that it is a complex job for researchers (Meydan and Akkaş, 2024). According to Dawadi et al. (2021), its advantage overcomes its disadvantages since it makes qualitative research valid and reliable. With the use of triangulation, researchers can generate comprehensive, valid, and credible case study findings, which result in stronger theoretical construction.

### *2.7. Problems in Theorizing Case Studies*

According to Sætre & Van (2021), Case study research offers rich theory contributions but has several methodological issues. Generalizability is one of the most relevant issues. Since case studies are context-specific, what is obtained from one or more cases is not likely to be applicable to the big population. To bridge this, researchers must select representative cases that illustrate theoretical frameworks in ways that contribute something new to the body of knowledge. According to Varela et al. (2021), the second essential challenge is ensuring methodological robustness. It has been argued that case study research lacks protocols, and therefore it is susceptible to researcher bias. Unlike quantitative research, which adopts statistical procedures for objectivity, case study research involves subjective examination, thus susceptibility to bias (Noronha, et al., 2023). Case study research is also labor-intensive, given that it involves extensive data collection and long periods of analysis. Researchers must gather data from more than one source, for example, interviews, observations, and documents, to build credibility (Resch & Schrittesser, 2023). This is something that calls for a lot of effort and resources. Best practices can be employed by researchers to counter such challenges, for instance, triangulation, analytical generalization, and systematic approaches. As Sadeghi et al. (2021) says, triangulation improves validity by cross-verifying outcomes from various sources, and analytical generalization links case study findings to general theoretical concepts. Through implementing these strategies, researchers can make the validity and contribution of case study research toward developing theoretical knowledge even greater, as said by Santa et al. (2021).

### *2.8. Improving the Quality of Case Study Research*

According to Hancock et al. (2021), to improve the validity of case study research, requires researchers to implement best practices that ensure methodological rigor. Possibly the most significant step is to formulate the research questions very precisely, thus avoiding loss of direction and ensuring the study contributes worthwhile to theoretical development. According to Priya (2021), having a well-articulated research question, researchers can select relevant cases that are congruent with their objectives, and this maximizes the validity and generalizability of results. The selection of cases must be deliberate because the selection of irrelevant cases will lead to inadequate theoretical contribution or ambiguous findings, as said by Miranda et al. (2021). According to Kekeya (2021), the application of multiple sources of data is the second-best practice that maximizes the dependability of case study research. When researchers collect and compare data across different sources such as interviews, documents, and observations, it is possible for them to ground findings using the method of data triangulation. This reduces the risk of prejudice and makes research more credible. The application of replication logic when conducting multi-case studies also tightens conclusions with the demonstration of the consistency of outcomes across sites as said by van der Pol et al. (2024). Transparency in documentation is also vital to uphold research integrity. Adequate documentation allows others to assess the effectiveness of findings and conduct replication of the research, if necessary. Reflexivity or sensitivity to prejudices is also a central practice that offers researchers scope to minimize subjective impact on data interpretation. According to Dahwa (2024), through the application of different methodological approaches, researchers can make justified and balanced case study research. These best practices contribute to overall

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case study research reliability and provide assurance that outcomes are positively contributory to theory development as said by Nedd et al. (2021).

### *2.9. Augmenting the Practical Utility of Case-Based Theories*

According to Reijers (2021), theories developed through case studies possess the advantage of providing reflective, immediately applicable knowledge in a wide range of actual contexts. Case-based theories, by contrast, differ from more general theoretical models that are less immediately translatable. They present rich, situation-specific information usable in decision-making across various disciplines. According to Priyashantha et al. (2023), Policymakers can utilize these theories to construct policy from real case circumstances and resulting effects so that their policy decisions are guided by real case experience rather than theoretical assumptions. Business managers can employ case study research to inform strategic planning, business effectiveness, and innovation through the acquisition of historic success and failure lessons as said by Helper et al. (2021). Academics also have much to gain from case-based theory as they offer classroom pedagogical tactics and learning models that can be used in very diverse types of classroom environments (Hattke and Vogel,2023). According to Schneider et al. (2021), the case study research also supports inter-disciplinary collaboration by bringing together knowledge within different disciplines. By investigating real cases, researchers can identify patterns and trends that cannot be tapped by quantitative research alone. As Mishra and Dey (2022) indicated, however, for case-based theories to have a legacy, researchers must summarize their findings in a concise manner. To present findings in a concise, well-organized, and comprehensible form is to ensure that academic as well as non-academic stakeholders can utilize and apply them. According to Dewantara et al. (2023), stakeholder and practitioner involvement also enhances the pragmatic value of case study research so that theory development is translated into beneficial change in society as said by Liu et al. (2024).

Case study research remains a valid method of theory building and theory development in qualitative research. Different methodological strategies have their advantages and disadvantages. Eisenhardt's systematic process is formalized, and Yin's approach offers validity by replication logic. Stake's constructivist approach allows for a rich interpretation of individual experience. Analytical generalization allows for the extension of theoretical insight beyond the cases, and triangulation allows for credibility. Generalizability concerns, researcher bias, and methodological rigor must be met to increase the reliability of case study research. Through best practices in implementation and practical utility, researchers can assist case-based theories to have their maximum potential impact. With the continued development of qualitative research, case study methods will continue to be an essential component of building theoretical knowledge in academic fields.

## 3. Research Design

### *3.1. Purpose of the Study*

The primary purpose of this study is to explore how case study research contributes to theory development, particularly within the context of social sciences and management research (Halkias & Neubert, 2020). While case studies are known for offering deep, context-rich insights, they are frequently criticized for lacking generalizability and methodological rigor. This study aims to examine these criticisms and reframe the role of case studies as a powerful tool for generating, refining, and testing theory. It highlights the unique value of in-depth, real-world inquiry and explores how such research can produce practically relevant and theoretically sound outcomes.

In doing so, the study seeks to address common concerns about subjectivity and researcher bias that are often associated with qualitative approaches. It aims to demystify these concerns by proposing methods to enhance credibility and ensure balanced interpretation. By identifying and refining best practices in case study methodology, the study contributes to a more robust framework for ensuring validity and reliability in theory-building research. This includes strategies such as triangulation, mixed-method integration, and clear documentation of research processes.

Ultimately, the study aspires to promote cross-disciplinary learning by illustrating how case study-based theories can be applicable across diverse fields. It demonstrates how incorporating qualitative techniques and thoughtful research design can elevate the practical and academic relevance of case-based findings. In this way, the study offers a roadmap for scholars seeking to harness the full potential of case study research in advancing theory while maintaining methodological integrity.

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### *3.2. Research Method*

The research employs a qualitative research methodology founded on case study research. It uses Eisenhardt's systematic strategy, Yin's replication rationale, and Stake's constructivist model of research. Triangulation is used to authenticate findings using various sources of data. Analytical generalization is used to generalize findings beyond specific cases. Reflexivity is ensured to reduce researcher bias and promote credibility (Paparini et al., 2021). Data is gathered through literature review.

## 4. Data Collection, Analysis and Findings

### *4.1. Data Collection*

The techniques for collecting data for this study are qualitative, with case studies being the primary method for theory building. Multiple case studies are chosen to incorporate different perspectives and thus improve the robustness of the theoretical insights. The selection criteria include relevance to the research problem, diversity in industry or discipline, and richness of context in available data.

### *4.2. Data Analysis*

The analysis is undertaken thematically, informed by coding methodologies oriented toward recognizing meaningful patterns and insights based on collected data. A combination of deductive and inductive coding is used to assign the findings to the themes stated in the literature while allowing emergent themes to surface. The thematic analysis consists of three stages: Open Coding, Axial Coding, and Selective Coding (Qureshi & Ünlü, 2020). The open coding involves the first read-through of the interview text and case study data to come up with recurring concepts. Axial coding establishes a relationship between themes, such as linking challenges with potential solutions. Selective coding synthesizes themes into broader theoretical constructs that contribute towards understanding case-based theory.

## 5. Findings

The study's findings present three major aspects in theory development from case studies vis-a-vis opportunities, challenges, and strategies. With the contextual insights case studies allow, another opportunity is that theories are not explanatory per se. Rather, their explanations are closely intertwined with real-world applications; hence, they have much value in practical applications. The study also identifies some real challenges encompassing generalizability, subjectivity of interpretation, and lack of standardized methodologies. Researchers constantly grapple with the precarious balance between the depth of case-only findings and the generalizability required for theory development. Various strategies have been identified by the study to address these challenges.

### *5.1. How Research Findings Answer the Research Questions*

Research Question 1: What are the unique opportunities presented by case studies for theory building? The results of this paper indicate that case studies present unique possibilities of theory development because they have the richness of context-sensitive data on complex phenomena of the real world. Case studies enable the researcher to study processes, relationships, behaviors, and contextual influences in detail, unlike methods that depend more on numerical abstraction. This renders them particularly useful in the discovery of emerging concepts, the discovery of hidden mechanisms, and the generation of propositions that are highly rooted in practice. The review also states that case studies can be highly beneficial in those spheres when the current theory is not as broad, not yet developed, or cannot provide a comprehensive picture of the dynamic social and organizational realities. Besides this, case studies facilitate theory building through the possibility to track the events over time and investigate the interactions of various variables in natural contexts. In cases where more than one case is utilized, cross-case comparison gives patterns, similarities and contrasts of results to come out more vividly thus giving more strength to the development of concept and increasing the explanatory power of the resulting theory.

Research Question 2: What are the key challenges and limitations researchers face in using case studies for theory development?

The results show that a generalized limitation is one of the most commonly reported problems with case study research. Since case studies are usually context-related, organization-related, or event-related, critics may raise the question of whether the results are transferable beyond the context of the case. The other

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significant shortcoming is related to the methodological rigor, which in some cases is accused of being deficient in case study research because it is not always based on standardized procedures and depends on the interpretation of the researcher to a great extent. This may create issues of consistency, objectivity, and replicability. Another factor that is brought out by the review is that researcher subjectivity and interpretive bias may affect the choice of data, analysis, and presentation of data, especially in qualitative case study designs. In addition, case studies can be time consuming and involve management of large amounts of complicated data that can present additional analytical difficulties. Such constraints do not render case study research weak; however, it implies that the researchers need extra precaution in order to support their design decisions and prove the validity of their results.

Research Question 3: How can researchers address issues of generalizability, methodological rigor, and potential biases in case-based research?

These findings suggest that the above methodological issues can be resolved using various concerted and careful approaches. First, it is possible to enhance rigor by describing the research design clearly and by justifying the selection of cases, as well as using transparent processes during the process of data collection and interpretation. Second, triangulation can improve credibility by using various sources of evidence or other types of interpretation, which helps to eliminate overreliance on one perspective. Third, cross-case comparison can increase analytical generalization by detecting common themes and theoretical trends in various settings, as opposed to purporting statistical generalizability. It is also proposed in the review that consistency and minimization of the risk of unsystematic interpretation can be enhanced by the application of structured coding procedures and well-defined analytical frameworks. In addition, ensuring clarity of the chain of evidence, recording analytical choices, and critically thinking about the positionality of the researcher can assist in overcoming bias and enhancing trustworthiness. Together, these methods enhance the strength of case-based research and render its theoretical impact more justifiable.

Research Question 4: What strategies and frameworks can enhance the effectiveness of case studies in contributing to theoretical advancements?

These results indicate that the usefulness of the case studies in the development of theory could be enhanced greatly by employing the existing methodological frameworks, proper planning, and systematic analytical approaches. It should have a clear rationale of case selection to enable it to be effective in assuring that the selected case or cases will be relevant to the theoretical issue of inquiry. Some of the frameworks, like replication logic in multiple case studies, make the comparison and refinement of the theory a better ground, and the principles of thematic analysis and structured coding can further enhance clarity in analytics. The review also indicates that thick description is significant as it helps the researcher to provide the context, actors, and processes to a degree that they can be used to interpret concepts. Similarly, an audit trail of major methodological and analytical choices enhances transparency and enables the reader to comprehend more about the derivation of the conclusions. These measures can assist case studies in leaving the descriptive explanations and play a better role in the explanations, conceptualization, and innovation of theories.

Research Question 5: How can the insights gain from case-based theories be effectively translated into practical applications across various disciplines?

The results indicate that case-based theories are highly practical as they are based on real-life contexts and thus capture the complexity, variability, and situational nature of social and organizational issues. This grounding in lived reality makes them especially useful in applied fields such as business, governance, healthcare, and education, where decision-making often depends on understanding context rather than applying abstract universal rules. The review recommends that case-based theories have the potential to inform policy formulation, professional practice, organizational strategy, and problem-solving through the provision of conceptually relevant insights that can be adapted practically. Such theories tend to be more relatable and practical to practitioners since they capture the unfolding of issues in particular environments. In this way, case study research plays an important role in bridging the gap between theory and practice, ensuring that academic knowledge is not only analytically valuable but also relevant to real-world applications across disciplines.

## 6. Discussion

Theory development is a powerful and complex research methodology that provides unique opportunities and daunting challenges. This discussion summarizes findings considering available literature and provides

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substantial theoretical implications and practice-oriented suggestions. It also evaluates how researchers can navigate through the methodological challenges of case-based research to exploit its strengths to generate solid and impactful theories. Some of the significant advantages of case-based research include providing them with rich contextual insights that are mostly unreachable through only quantitative methods.

Despite its advantages, case study research is often criticized for its supposed weak generalizability. Traditional scientific methodologies focus on the statistical generalization of results across many contexts and relatively larger samples; case studies are more likely to be at odds with this view of research, as they deal with instances. Because of this limitation, generalizing findings beyond the cases under study may be challenging. This concern arises with great promptness in ongoing methodological debates where some scholars still contend that case-based research lacks the external validity criteria that entrench the serious developments of theories. Nevertheless, the findings of this study indicate some methods that could enhance generalizability in case-based research. For example, thematic coding, triangulation, and reflexivity journals enable researchers to assure consistency and check for biases in their interpretations (Mortelmans, 2024). Also, using software programs such as NVivo can improve the organization and analysis of qualitative data, ensuring that findings arise from the data systematically and are not imposed by personal preconceptions. Bias is another major problematic issue in this study since one's research design is preparing data collection and data analysis-based observations, from the researcher's perspective. Given that case studies are often influenced by long-term engagement with subjects or departments that they involve, there is a real possibility that the researcher unknowingly imposes the researcher's perspective onto the analysis. This could result in theories too colored by subjective positions rather than objective observations (Elliott-Mainwaring, 2021).

Regardless of the above-mentioned challenges, case-based research remains an essential method for theory development, especially in contexts where conventional positivistic approaches fall short. As modern societal and organizational problems become more complicated, there is a demand for theories that are flexible, nuanced, and informed by contextual variations. This is where case studies flourish, delivering a flexible and iterative approach to theory building through constant refinement based on real-world observations. Such flexibility renders case-based theories particularly relevant for decision-makers, business leaders, and practitioners keen on translating research into practical experience (Latif, 2024).

Theory building from case studies presents a set of challenges and prospects. While generalizability, methodological robustness, and researcher bias remain burning issues in case study research, these can be suitably addressed through various methodological best practices, which the current study suggests. Cross-case analysis, triangulation, reflexivity, and ethnographic confidence concerning the collection and analysis of the data lend credence to the applicability of case-based theories (Ferreira de Araújo Lima et al., 2021). It comes down to, then, that case studies can play an indispensable chapter in knowledge expansion, widening their lens to take mechanism complexity and still go a mile further by laying the groundwork for context-sensitive insights that are both rigorously scholarly and practically pertinent.

The findings of this study quite sufficiently verify that the insight derived from case-based research applications is equally valuable in many other diverse fields. Theories nurtured within one discipline should not be confined to that domain but can illuminate many other fields. For instance, the learning from business case studies can be applied to healthcare management, and the learning from educational case studies can deep-dive into public policy analysis. This very interdisciplinary relevance lends more heft to the case-based study, making that an instrumental means of creating knowledge by crossing disciplinary boundaries. Theory building from case studies presents a set of challenges and prospects. While generalizability, methodological robustness, and researcher bias remain burning issues in case study research, these can be suitably addressed through various methodological best practices, which the current study suggests. Cross-case analysis, triangulation, reflexivity, and ethnographic confidence concerning the collection and analysis of the data lend credence to the applicability of case-based theories.

### *6.1. Policy Implications*

Theory building from case studies offers valuable insights for policymaking by grounding theoretical frameworks in real-world contexts, making them more practical, adaptive, and impactful. This study's findings underscore that case-based research captures the complexity and contextual nuances often missed in purely quantitative approaches. These qualities have direct policy implications, especially in environments where dynamic socio-economic conditions require agile and evidence-informed interventions.

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*6.2. Promote Evidence-Based and Context-Sensitive Policymaking.*

Case studies allow the development of theories that reflect the lived realities of businesses, institutions, and governance structures. This context-rich data provides policymakers with grounded insights into how policies function in actual practice, highlighting unintended consequences or implementation barriers. By incorporating theory built from empirical cases, policymakers can design initiatives that are both theoretically sound and practically feasible, increasing policy relevance and effectiveness.

*6.3. Use Cross-Case Theory for Sector-Wide Reforms.*

The comparative logic of cross-case analysis—central to case-based theory development—enables identification of patterns and systemic issues across diverse cases. These recurring themes can be used to inform sector-wide reforms. For instance, theories generated from multiple governance cases can inform regulatory strategies that balance control with institutional autonomy or guide digital economy policies across multiple sectors.

*6.4. Enhance Policy Agility Through Adaptive Theoretical Frameworks*

Theories emerging from case studies are iterative and adaptive, evolving alongside changing environments. Such flexibility is crucial in policy domains like digital transformation, climate governance, and public health, where traditional static policies fall short. By grounding policies in adaptive theories, governments can better respond to emerging challenges and shifting stakeholder dynamics.

*6.5. Institutionalizing Reflexivity and Ethical Oversight.*

Theory building from case studies also reveals the influence of researcher bias and interpretive subjectivity, emphasizing the need for reflexivity. This methodological principle can be extended to policy environments to promote continuous feedback loops, ethical decision-making, and stakeholder engagement throughout the policy lifecycle (Albrecht, et al., 2015).

*6.6. Strengthening Interdisciplinary and Transdisciplinary Learning.*

Finally, case-based theories often transcend disciplinary boundaries. Policymakers can apply lessons from case studies in business or education to other fields such as public policy, healthcare, or environmental management. This interdisciplinary transfer enhances innovation and ensures more holistic policy outcomes.

By leveraging theory derived from case-based research, policymakers can foster regulatory systems that are not only empirically grounded but also strategically adaptive and ethically informed.

## 7. Theoretical Implications

*7.1. Defining a Theory*

The theory is a theoretical explanation of a phenomenon: its presence offers a structured way of some understanding, prediction, or derivation of certain relations between two or more concepts. Theories provide the basis for academics in research due to the inquiry that they guide, the generation of hypotheses, and the provision of insights that can be tested and improved upon overtime (Sandberg & Alvesson, 2021). The essence of a theory is to act as a link with empirical observations and generalized knowledge, as it aids the researcher in comprehending a muddled entity. Major Characteristics of Theory: conceptual clarity, coherence, testability, generalizability, and practical applicability. Conceptual clarity must specify which ideas and constructions are to be understood in a theory. Coherence means there is no conflict between the various components of the theory regarding explaining a phenomenon. Testability allows theory to open for empirical exploration in research and experiments. Generalizability refers to the extent to which a theory applies to various spheres and practical applicability assures real-world problems would have a theory included that provided some insight.

*7.2. Major theories Reviewed*

In this study, five important theories, which would assist in understanding the theories behind theory construction from case studies, have been examined. Eisenhardt's Theory Building (1989) proposes the systematic usage of case studies to develop theories through iterative data collection and analysis, thereby pointing out the importance of multiple cases, pattern recognition, and theoretical sampling to ensure rigor and

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relevance. The Case Study Research Framework (Yin, 2018) provides a systematic approach to conducting case studies that can be of great utility, with specific consideration of research design, data collection techniques, and analysis of data. Yin advocates that case studies be investigated for analytical generalization rather than statistical generalization, further concurring with theory development. Stake's Constructivist Approach (1995) marks a shift toward qualitative, interpretative research, stating how knowledge is co-constructed, that is, jointly made, between the researchers and the participants (Hudon et al., 2021). This allows for deep contextual understanding rather than wide forms of generalization. The Theory of Analytical Generalization (Yin, 2018) makes use of case study results in linking specific contexts to existing theoretical frameworks, thereby ensuring applicability and generalization. Finally, Denzin's Triangulation Theory considers the multiple sources of data, methods used to gather data, types of data alone, and approaches taken to enhance the validity and credibility of qualitative research (Jnanathapaswi, 2021).

*7.3. Synthesizing Theories and Developing an Integrated Framework*

This synthesis of approaches provides case study researchers with complementary views towards theory building, affording an integrated methodology that weighs methodological rigor against contextual depth. Eisenhardt's systematic method and Yin's structured framework ensure rigor in terms of data collection and analysis, while Stake's constructivist approach draws attention to the significance of interpretative meaning-making. Yin's Analytical Generalization provides a better connection to the findings of case studies, while Denzin's Triangulation Theory strengthens the validity of the findings using varied data sources (Donkoh & Mensah, 2023).

Using these theories, a Hybrid Case-Based Theory theory-building model can be conceived that brings together systematic data interpretation contextual richness, and multiple techniques of validation. This will largely neutralize some of the difficulties faced by case-based research-generalizability, bias, and methodological rigor-where they will have elements such as structured case selection, iterative analyses, and triangulation implemented to address these challenges. The proposed framework serves a median function maximally reinforcing both theoretical abstraction and applicability in the practical world, thus positioning itself amongst the most useful contributions to qualitative research methodologies.

Formula Representation

Let:

Y = Quality of Theory Building in Case Study Research

Then:

$Y = F(X_1, X_2, X_3, X_4, X_5, X_6)$

Where:

$X_1$ = Methodological Rigor (Eisenhardt's systematic method & Yin's structured framework)

$X_2$ = Contextual Depth (Stake's constructivist approach)

$X_3$ = Analytical Generalization (Yin's method for linking data to theory)

$X_4$ = Triangulation (Denzin's approach to data validation)

$X_5$ = Iterative Analysis (Looping back for data refinement and deeper insights)

$X_6$ = Structured Case Selection (Purposeful selection for maximizing variation and relevance)

Y (Theory-Building Quality) = F (Methodological Rigor, Contextual Depth, Analytical Generalization, Triangulation, Iterative Analysis, Structured Case Selection).

Figure 1 below represents the relationship between the dependent variable Theory Building Quality and the six independent variables.

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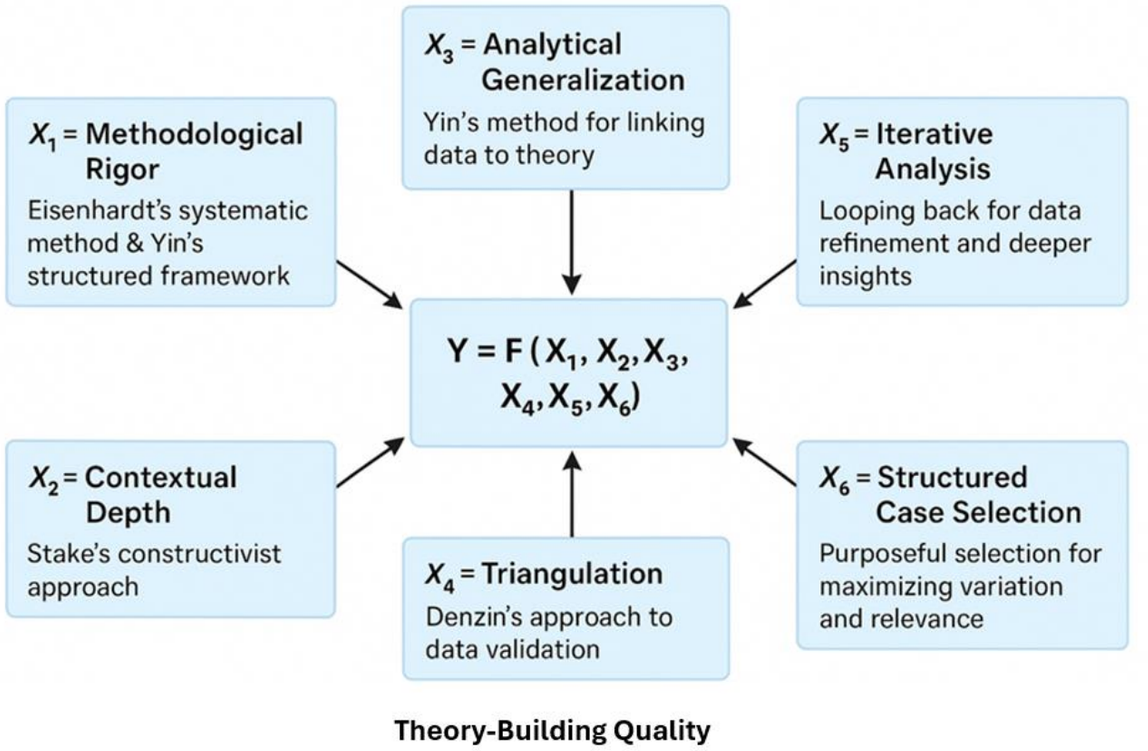



**Figure 1.** Factors influence the theory-building quality.

## 8. Conclusion

### *8.1. Brief Summary*

In this study theory building, using case studies is explored to emphasize the opportunities, challenges, and strategies of this qualitative research approach. Some fundamental types of case-based research reach the development of contextually layered and empirically mature theories to seriously address the shortcomings of a traditional positivist methodology. In this research, the authors stressed case-based studies which permit capturing complicated real-life phenomena, giving deep insights into the context, and bridging the gap between theoretical abstraction and the everyday work of practice. Yet case-based research also has other serious challenges to reckon with, including concerns regarding generalizability, methodological rigor, and biases in the researcher (Li et al., 2024). To deal with them, the study mentions other strategies which include methodological triangulation, structured data collection techniques, and analytical frameworks that help lend more credibility to the case-based theories present. In addition to this, there are other broader policy implications of case-based research relative to evidence-based policymaking, regulatory frameworks, and the inclusion of governance practices. In the end, this study emphasizes and stresses case-based research as a means of promoting knowledge across different scientific jurisdictions. By giving structured guidance to the development of theory, these findings provide new contributions to the growing literature on qualitative methodologies, as well as offer practical guidelines for researchers seeking to produce useful and actionable theories through case studies.

### *8.2. Future Research*

Future research on theory building from case studies may look toward many areas to enhance the methodological rigor and applicability of this approach even further. One important direction is the development of standardized frameworks for conducting case-based research, making sure that the studies stay consistent in quality and design but flexible enough to adjust to the variations of the different research contexts. Guidelines on selection criteria, data collection, and analysis will further enhance the reliability and validity of the theories developed through case-based methods. Future research offers another window of

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opportunity whereby digital technologies, such as artificial intelligence and big data analytics, can be integrated into case study research. AI-led content analysis and machine learning-oriented models may help highlight patterns in qualitative data that present a lot less bias from the researcher and lend greater generalizability to the results derived from the case studies (Budhwar et al., 2023). This would represent a valuable contribution to the field: determining how AI might integrate with traditional case study methods. The comparative case study research across many disciplines would shed light on the issues of transferability of case-based theories. If case study findings were studied across different cultural, economic, and institutional contexts, this may help refine theory-building frameworks and improve their broader applicability (Paul et al., 2024). Future research must also examine the extent to which theory derived from case studies influences policymaking and organizational decision-making so that such theoretical developments can address real-world issues.

### *8.3. Limitations of the Research*

This study contributes to theory building from case studies, but it also has some limitations. The first main problem that comes with case approaches is generalizability. Since case studies treat concrete instances situated in real-world contexts, their findings may not be generalizable beyond the specific context or applicable to other populations. Although cross-case analysis and triangulation may increase generalizability, the case study still suffers from a very context-bound approach. Another limitation is the possibility of bias the researcher has on data collection and interpretation. Case study research is a qualitative data-based study, and interpretation is also likely subjectivity. Preconceptions and theoretical orientations of researchers may impact on how they interpret findings. While methodological rigor and transparency would make a difference, total objectivity may be hard to secure in qualitative research. Alternatively, this kind of research might imply considerable involvement of time and resources, particularly in longitudinal morass-case inquiries. The time-consuming aspect of data gathering and analysis may limit major studies from being done.

## References


Alam, M. K. (2021). A systematic qualitative case study: Questions, data collection, NVivo analysis and saturation. *Qualitative Research in Organizations and Management: An International Journal, 16*(1), 1–31. https://doi.org/10.1108/QROM-09-2019-1825

Albrecht, S. L., Bakker, A. B., Gruman, J. A., Macey, W. H., & Saks, A. M. (2015). Employee engagement, human resource management practices and competitive advantage: An integrated approach. *Journal of Organizational Effectiveness: People and Performance, 2*(1), 7–35. https://doi.org/10.1108/JOEPP-08-2014-0042

Armour, R., & Williams, B. (2022). Reliability and validity in quantitative and qualitative research. In B. Williams (Ed.), *Introducing, designing and conducting research for paramedics* (pp. 69–72). Routledge.

Barnett, M. L., Barnard, H., Branzei, O., & Bhatt, B. (2025). Mattering matters: Explaining what fits at *Academy of Management Perspectives*. *Academy of Management Perspectives*. Advance online publication. https://doi.org/10.5465/amp.2024.0322

Bennett, A., & Braumoeller, B. F. (2022). *Where the model frequently meets the road: Combining statistical, formal, and case study methods* (arXiv No. 2202.08062). arXiv. https://arxiv.org/abs/2202.08062

Budhwar, P., Chowdhury, S., Wood, G., Aguinis, H., Bamber, G. J., Beltran, J. R., ... & Varma, A. (2023). Human resource management in the age of generative artificial intelligence: Perspectives and research directions on ChatGPT. *Human Resource Management Journal, 33*(3), 606–659. https://doi.org/10.1111/1748-8583.12524

Christian, D. D., McCarty, D. L., & Brown, C. L. (2021). Experiential education during the COVID-19 pandemic: A reflective process. *Journal of Constructivist Psychology, 34*(3), 264–277. https://doi.org/10.1080/10720537.2020.1813666

Dahwa, C. (2024). Adapting and blending grounded theory with case study: A practical guide. *Quality & Quantity, 58*(3), 2979–3000. https://doi.org/10.1007/s11135-023-01783-9

Dawadi, S., Shrestha, S., & Giri, R. A. (2021). Mixed-methods research: A discussion on its types, challenges, and criticisms. *Journal of Practical Studies in Education, 2*(2), 25–36.

Denny, E., & Weckesser, A. (2022). How to do qualitative research? Qualitative research methods. *BJOG: An International Journal of Obstetrics and Gynaecology, 129*(7), 1166. https://doi.org/10.1111/1471-0528.17150

Dewantara, A. H., Setiawati, F. A., & Saraswati, S. (2023). Towards numeracy literacy development: A single-case study on the use of the living book homeschooling model. *Infinity Journal, 12*(2), 225–242. https://doi.org/10.22460/infinity.v12i2.p225-242

Donkoh, S., & Mensah, J. (2023). Application of triangulation in qualitative research. *Journal of Applied Biotechnology and Bioengineering, 10*(1), 6–9.

Eisenhardt, K. M. (1989). Building theories from case study research. *Academy of Management Review, 14*(4), 532–550. https://doi.org/10.5465/amr.1989.4308385

Eisenhardt, K. M. (2021). What is the Eisenhardt method, really? *Strategic Organization, 19*(1), 147–160. https://doi.org/10.1177/1476127020982866

Elliott-Mainwaring, H. (2021). Exploring using NVivo software to facilitate inductive coding for thematic narrative synthesis. *British Journal of Midwifery, 29*(11), 628–632. https://doi.org/10.12968/bjom.2021.29.11.628



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Englander, M., & Morley, J. (2023). Phenomenological psychology and qualitative research. *Phenomenology and the Cognitive Sciences, 22*(1), 25–53. https://doi.org/10.1007/s11097-021-09781-8

Ferreira de Araújo Lima, P., Marcelino-Sadaba, S., & Verbano, C. (2021). Successful implementation of project risk management in small and medium enterprises: A cross-case analysis. *International Journal of Managing Projects in Business, 14*(4), 1023–1045. https://doi.org/10.1108/IJMPB-06-2020-0203

Flemming, K., & Noyes, J. (2021). Qualitative evidence synthesis: Where are we at? *International Journal of Qualitative Methods, 20*, 1609406921993276. https://doi.org/10.1177/1609406921993276

Goertz, G., & Haggard, S. (2023). Large-N qualitative analysis (LNQA): Causal generalization in case study and multimethod research. *Perspectives on Politics, 21*(4), 1221–1239. https://doi.org/10.1017/S1537592722001073

Guetterman, T. C., Fàbregues, S., & Sakakibara, R. (2021). Visuals in joint displays to represent integration in mixed methods research: A methodological review. *Methods in Psychology, 5*, Article 100080. https://doi.org/10.1016/j.metip.2021.100080

Halkias, D., & Neubert, M. (2020). *Extension of theory in leadership and management studies using the multiple case study design* (SSRN Working Paper No. 3586256). SSRN. https://doi.org/10.2139/ssrn.3586256

Hancock, D. R., Algozzine, B., & Lim, J. H. (2021). *Doing case study research: A practical guide for beginning researchers* (4th ed.). Teachers College Press.

Hattke, F., & Vogel, R. (2023). Theories and theorizing in public administration: A systematic review. *Public Administration Review, 83*(6), 1542–1563. https://doi.org/10.1111/puar.13730

Helper, S., Gray, J. V., Hughes, M. M., & Roman, A. V. (2021). Public policy and operations management. *Journal of Operations Management, 67*(7), 780–802. https://doi.org/10.1002/joom.1160

Hickman, L., Thapa, S., Tay, L., Cao, M., & Srinivasan, P. (2022). Text preprocessing for text mining in organizational research: Review and recommendations. *Organizational Research Methods, 25*(1), 114–146. https://doi.org/10.1177/1094428120971683

Meydan, C. H., & Akkaş, H. (2024). The role of triangulation in qualitative research: Converging perspectives. In *Principles of conducting qualitative research in multicultural settings* (pp. 98–129). IGI Global. https://doi.org/10.4018/979-8-3693-6245-5.ch005

Miranda, J., Navarrete, C., Noguez, J., Molina-Espinosa, J. M., Ramírez-Montoya, M. S., Navarro-Tuch, S. A., Molina, A., & others. (2021). The core components of Education 4.0 in higher education: Three case studies in engineering education. *Computers & Electrical Engineering, 93*, Article 107278. https://doi.org/10.1016/j.compeleceng.2021.107278

Mishra, S., & Dey, A. K. (2022). Understanding and identifying themes in qualitative case study research. *South Asian Journal of Business and Management Cases, 11*(3), 187–192. https://doi.org/10.1177/22779779221134659

Mortelmans, D. (2024). Thematic coding. In *Doing qualitative data analysis with NVivo* (pp. 57–87). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-66014-6_8

Mwita, K. M. (2022). Strengths and weaknesses of qualitative research in social science studies. *International Journal of Research in Business and Social Science, 11*(6), 618–625. https://doi.org/10.20525/ijrbs.v11i6.1920

Nedd, R., Light, K., Owens, M., James, N., Johnson, E., & Anandhi, A. (2021). A synthesis of land use/land cover studies: Definitions, classification systems, meta-studies, challenges and knowledge gaps on a global landscape. *Land, 10*(9), Article 994. https://doi.org/10.3390/land10090994

Noble, H., & Smith, J. (2025). Ensuring validity and reliability in qualitative research. *Evidence-Based Nursing*. Advance online publication.

Noronha, A., Bhat, S., Gijo, E. V., Antony, J., Laureani, A., & Laux, C. (2023). Performance and service quality enhancement in a healthcare setting through lean six sigma strategy. *International Journal of Quality & Reliability Management, 40*(2), 365–390. https://doi.org/10.1108/IJQRM-07-2021-0226

Paparini, S., Papoutsi, C., Murdoch, J., Green, J., Petticrew, M., Greenhalgh, T., & Shaw, S. E. (2021). Evaluating complex interventions in context: Systematic meta-narrative review of case study approaches. *BMC Medical Research Methodology, 21*, Article 225. https://doi.org/10.1186/s12874-021-01418-3

Paul, J., Khatri, P., & Kaur Duggal, H. (2024). Frameworks for developing impactful systematic literature reviews and theory building: What, why and how? *Journal of Decision Systems, 33*(4), 537–550. https://doi.org/10.1080/12460125.2023.2197700

Pilcher, N., & Cortazzi, M. (2024). 'Qualitative' and 'quantitative' methods and approaches across subject fields: Implications for research values, assumptions, and practices. *Quality & Quantity, 58*(3), 2357–2387. https://doi.org/10.1007/s11135-023-01734-4

Priya, A. (2021). Case study methodology of qualitative research: Key attributes and navigating the conundrums in its application. *Sociological Bulletin, 70*(1), 94–110. https://doi.org/10.1177/0038022920970318

Priyashantha, K. G. (2023). Disruptive technologies for human resource management: A conceptual framework development and research agenda. *Journal of Work-Applied Management, 15*(1), 21–36. https://doi.org/10.1108/JWAM-10-2022-0069

Qureshi, H. A., & Ünlü, Z. (2020). Beyond the paradigm conflicts: A four-step coding instrument for grounded theory. *International Journal of Qualitative Methods, 19*, 1609406920928188. https://doi.org/10.1177/1609406920928188

Reijers, H. A. (2021). Business process management: The evolution of a discipline. *Computers in Industry, 126*, Article 103404. https://doi.org/10.1016/j.compind.2021.103404

Resch, K., & Schrittesser, I. (2023). Using the service-learning approach to bridge the gap between theory and practice in teacher education. *International Journal of Inclusive Education, 27*(10), 1118–1132. https://doi.org/10.1080/13603116.2021.1882053

Rieger, J., Devlieger, P., Van Assche, K., & Strickfaden, M. (2022). Doing embodied mapping/s: Becoming-with in qualitative inquiry. *International Journal of Qualitative Methods, 21*, 16094069221137490. https://doi.org/10.1177/16094069221137490

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Sadeghi Moghadam, M. R., Ghasemnia Arabi, N., & Khoshsima, G. (2021). A review of case study method in operations management research. *International Journal of Qualitative Methods, 20*, 16094069211010088. https://doi.org/10.1177/16094069211010088

Sætre, A. S., & Van de Ven, A. H. (2021). Generating theory by abduction. *Academy of Management Review, 46*(4), 684–701. https://doi.org/10.5465/amr.2019.0233

Safari, K., McKenna, L., & Davis, J. (2023). Promoting generalisation in qualitative nursing research using the multiple case narrative approach: A methodological overview. *Journal of Research in Nursing, 28*(5), 367–381. https://doi.org/10.1177/17449871231194177

Sandberg, J., & Alvesson, M. (2021). Meanings of theory: Clarifying theory through typification. *Journal of Management Studies, 58*(2), 487–516. https://doi.org/10.1111/joms.12587

Santa-Maria, T., Vermeulen, W. J. V., & Baumgartner, R. J. (2021). Framing and assessing the emergent field of business model innovation for the circular economy: A combined literature review and multiple case study approach. *Sustainable Production and Consumption, 26*, 872–891. https://doi.org/10.1016/j.spc.2020.12.037

Schneider, H., Olivier, J., Orgill, M., Brady, L., Whyle, E., Zulu, J., ... & The Collective. (2021). The multiple lenses on the community health system: Implications for policy, practice and research. *International Journal of Health Policy and Management, 11*(1), 9–22. https://doi.org/10.34172/ijhpm.2020.259

Schumacher, K. L., Plano Clark, V. L., Eilers, J., Kigondu, N., Geary, C., Kupzyk, K., ... & Ly, Q. (2021). Methodological considerations for the design and implementation of a fully longitudinal mixed methods study. *Research in Nursing & Health, 44*(3), 571–580. https://doi.org/10.1002/nur.22133

Sibbald, S. L., Paciocco, S., Fournie, M., Van Asseldonk, R., & Scurr, T. (2021). Continuing to enhance the quality of case study methodology in health services research. *Healthcare Management Forum, 34*(5), 291–296. https://doi.org/10.1177/08404704211028857

Sridharan, V. G. (2021). Theory development in qualitative management control: Revisiting the roles of triangulation and generalization. *Accounting, Auditing & Accountability Journal, 34*(2), 451–479. https://doi.org/10.1108/AAAJ-09-2019-4177

Stake, R. E. (1995). *The art of case study research*. Sage Publications.

Turnbull, D., Chugh, R., & Luck, J. (2021). The use of case study design in learning management system research: A label of convenience? *International Journal of Qualitative Methods, 20*, 16094069211004148. https://doi.org/10.1177/16094069211004148

van der Pol, C. B., Costa, A. F., Lam, E., Dawit, H., Bashir, M. R., & McInnes, M. D. F. (2024). Best practice for MRI diagnostic accuracy research with lessons and examples from the LI-RADS individual participant data group. *Journal of Magnetic Resonance Imaging, 60*(1), 21–28. https://doi.org/10.1002/jmri.29049

Varela, M., Lopes, P., & Rodrigues, R. (2021). Rigour in the management case study method: A study on master's dissertations. *Electronic Journal of Business Research Methods, 19*(1), 1–13. https://doi.org/10.34190/EJBRM.19.1.2072

Vos, J., & van Rijn, B. (2021). The evidence-based conceptual model of transactional analysis: A focused review of the research literature. *Transactional Analysis Journal, 51*(2), 160–201. https://doi.org/10.1080/03621537.2021.1904364

Wu, L., Sun, L., Chang, Q., Zhang, D., & Qi, P. (2022). How do digitalization capabilities enable open innovation in manufacturing enterprises? A multiple case study based on resource integration perspective. *Technological Forecasting and Social Change, 184*, Article 122019. https://doi.org/10.1016/j.techfore.2022.122019

Yin, R. K. (2018). *Case study research and applications: Design and methods* (6th ed.). Sage Publications.

Younas, A., Fàbregues, S., Durante, A., Escalante, E. L., Inayat, S., & Ali, P. (2023). Proposing the "MIRACLE" narrative framework for providing thick description in qualitative research. *International Journal of Qualitative Methods, 22*, 16094069221147162. https://doi.org/10.1177/16094069221147162

Zeithaml, V. A., Jaworski, B. J., Kohli, A. K., Tuli, K. R., Ulaga, W., & Zaltman, G. (2020). A theories-in-use approach to building marketing theory. *Journal of Marketing, 84*(1), 32–51. https://doi.org/10.1177/0022242919888477

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