2025, 10(54s) e-ISSN: 2468-4376

https://www.jisem-journal.com/

**Research Article** 

# The Impact of Green Supply Chain Practices, Risk Management, and Ethical Leadership on Corporate Performance: The Moderating Role of Governance

### Endah Prawesti Ningrum<sup>1</sup>, Arissetyanto Nugroho<sup>2</sup>, Darmansyah<sup>3</sup>

<sup>1</sup>Faculty of Economics and Business Accounting Study Program, Universitas Bhayangkara Jakarta Raya, Indonesia <sup>2,3</sup>Postgraduate Faculty of Economic and Business Universitas Pancasila, Indonesia endah.prawesti@dsn.ubharajaya.ac.id <sup>1</sup>, arissoehardjoo1@gmail.com<sup>2</sup>, darmansyah@univpancasila.ac.id<sup>3</sup>

### ARTICLE INFO

#### ABSTRACT

Received: 30 Dec 2024 Revised: 12 Feb 2025

Accepted: 26 Feb 2025

In response to growing environmental concerns, market volatility, and increased stakeholder demand for transparency, organizations are increasingly compelled to adopt sustainable and ethically driven management practices. This study explores the impact of green supply chain practices, risk management, and ethical leadership on corporate performance, with corporate governance examined as a moderating variable. Utilizing a qualitative literature review approach, the research synthesizes findings from peer-reviewed academic journals, international standards, and empirical studies published between 2015 and 2024. The analysis reveals that green supply chain practices contribute to improved operational efficiency, resource optimization, and brand reputation. Risk management is shown to enhance organizational resilience by identifying vulnerabilities and enabling proactive strategies to minimize disruption and ensure continuity. Ethical leadership, meanwhile, fosters a values-based organizational culture that improves employee commitment, stakeholder trust, and strategic alignment. However, the influence of these factors on performance is significantly shaped by the quality of corporate governance mechanisms in place. Strong governance structures—characterized by accountability, transparency, and strategic oversight-amplify the positive effects of sustainability and ethics-driven practices on firm outcomes. Despite the growing body of research in this domain, studies in developing economies, particularly within Southeast Asia, remain limited. This study addresses that gap by offering a holistic conceptual framework and highlighting the need for integrated approaches that align environmental responsibility, risk preparedness, ethical conduct, and governance to drive long-term corporate performance. The findings contribute to both theory and practice, offering strategic insights for scholars, managers, and policymakers.

**Keywords:** Green Supply Chain, Risk Management, Ethical Leadership, Corporate Governance, Firm Performance

### INTRODUCTION

Climate change and environmental degradation are among the most pressing challenges faced globally today. The industrial world is under increasing pressure to respond to environmental issues. These challenges range from global warming and waste management to stricter environmental regulations and growing consumer demand for eco-friendly products (Amaranti et al., 2017). Environmental pollution poses a significant threat that, if left unaddressed, could lead to the extinction of various species. Several growing sectors contribute to the declining quality of the global environment, including industrial processes, transportation, waste, agricultural products, power generation, land use, biogas combustion, fossil fuels, housing, tourism, and others.

Rapid and dynamic change has become a normal reality for many companies across service and industrial sectors. This dynamic environment creates significant challenges for businesses in achieving their strategic objectives (Cabernard et al., 2022; Gellert, 2019). Disruptions in the supply chain can result in severe financial losses, as evidenced in the past decade by Boeing, Cisco, and Pfizer, which each reported losses exceeding USD 2 billion due to supply chain failures (Luthra & Mangla, 2018; Yadav, 2020). Another critical example is the automotive industry,

external (disruption-related) risks that elevate the potential for failure.

2025, 10(54s) e-ISSN: 2468-4376

https://www.jisem-journal.com/ Research Article

impact on performance improvement.

where supply chain failures can lead to losses exceeding USD 100 million per day (Mathivathanan, 2018; Sharma et al., 2019; Vanalle et al., 2017). According to Li et al. (2020) and Luthra et al. (2018), the complexity and uncertainty of today's business climate—coupled with increasingly intricate supply chains—create both internal (operational) and

Several researchers (Andiappan et al., 2021; Hafezalkotob, 2019; Teixeira, 2020; Zou et al., 2021) have found that implementing green supply chain practices positively affects company performance. However, findings are not always consistent. For instance, Chanchaichujit (2020) reported a negative relationship between green supply chain management and firm performance based on a survey of 109 supply and purchasing managers in Germany. Similarly, Khorasani (2018), Nazam et al. (2020), and Wong et al. (2020) found that green supply chains had no significant

Another critical factor in enhancing company performance is effective risk management. There is strong belief that risk management provides companies with the tools needed to balance the inherent conflict between seizing opportunities and preventing losses, accidents, and disasters (Yan, 2021). According to Saeidi et al. (2021) and Tasmin (2020), risk management has become an increasingly important element in supply chain management projects. Its goal is to minimize disruption, reduce its impact on operations, and accelerate recovery to normal conditions (Iswajuni et al., 2018). Indonesia, represented by the National Standardization Agency (BSN, 2018), is an active member of ISO Technical Committee (TC) 262 on Risk Management. BSN has adopted ISO 31000:2009 as SNI ISO 9001:2011, and in February 2018, updated the national standard to ISO 31000:2018.

In addition to risk management, ethical leadership plays a pivotal role in achieving organizational goals. According to Franczukowska et al. (2021), Julmi et al. (2022), Özsungur (2019), Roque et al. (2020), and Xue et al. (2021), major barriers to adopting green supply chain initiatives include attitudinal and perceptual constraints, information limitations, technical challenges, resource constraints, and weak strategic orientation. Studies by Adnan (2020), de Ruiter (2019), Hassan (2019), Karsten (2019), and Metwally (2019) further explore the application of green supply chain practices across sectors and how these practices influence supply chain initiatives and performance.

To resolve inconsistencies in the literature, this study introduces corporate governance as a moderating variable that influences the relationships among green supply chain management, risk management, ethical leadership, and firm performance. Although prior research has explored the relationship between corporate governance and firm performance (e.g., Brogi & Lagasio, 2022; Paniagua, 2018), results remain inconsistent. These studies show that good governance tends to correlate positively and significantly with financial performance.

Most of the existing studies are based in developed countries or specific industries such as manufacturing. In contrast, research on green supply chains, risk management, and ethical leadership in developing countries—especially in Southeast Asia—is still limited. Moreover, industry-specific contexts such as agribusiness or services are rarely addressed in relation to these variables.

This research fills that gap by integrating green supply chain management, risk management, and ethical leadership as independent variables—an approach that remains rare in the literature. It also introduces governance as a moderating variable and adopts a holistic approach to firm performance, including sustainability dimensions. Furthermore, the research focuses on a developing country context, an underexplored yet increasingly relevant domain in global business literature.

#### **Research Identification**

This study is grounded in real-world phenomena and informed by relevant literature. In recent years, global challenges such as climate change, economic volatility, and increased awareness of good governance have pushed manufacturing firms to adopt sustainable business practices. As a hub of industrial activity in Indonesia, the MM 2100 Industrial Estate presents a dynamic setting where companies are strategically shifting to improve performance through sustainability-focused approaches.

### Scope of the Study

2025, 10(54s) e-ISSN: 2468-4376

https://www.jisem-journal.com/

#### **Research Article**

This research focuses exclusively on manufacturing companies located in the MM 2100 Industrial Estate. It relies on primary data and measurements derived from indicators outlined in the appendices of this dissertation. Furthermore, the study draws predominantly on global references, which may not fully capture the unique contextual variables in Indonesia, such as local regulations and market structures. These differences may affect the applicability of theoretical frameworks in the Indonesian context and the comparability of findings with those from other countries. Follow-up research will be necessary to further refine these theories within the specific characteristics of Indonesian manufacturing, while incorporating local factors that influence the implementation of green supply chain management, risk management, and ethical leadership.

### **Research Questions**

This research seeks to explore the relationships among green supply chain practices, risk management, ethical leadership, and corporate governance in enhancing firm performance. The questions guiding this study are:

- 1. How does Green Supply Chain Management influence Firm Performance?
- 2. How does Risk Management influence Firm Performance?
- 3. How does Ethical Leadership influence Firm Performance?
- 4. What is the moderating role of Corporate Governance in the relationship between Green Supply Chain Management and Firm Performance?
- 5. What is the moderating role of Corporate Governance in the relationship between Risk Management and Firm Performance?
- 6. What is the moderating role of Corporate Governance in the relationship between Ethical Leadership and Firm Performance?

### **Research Objectives**

The objectives of this study are to contribute both to academic theory and managerial practice by offering new insights into the integration of sustainability strategy, risk management, ethical leadership, and governance in improving firm performance. Specifically, the study aims to:

- 1. Analyze the effect of Green Supply Chain Management on Firm Performance.
- 2. Analyze the effect of Risk Management on Firm Performance.
- 3. Analyze the effect of Ethical Leadership on Firm Performance.
- 4. Examine the moderating role of Corporate Governance in the relationship between Green Supply Chain Management and Firm Performance.
- 5. Examine the moderating role of Corporate Governance in the relationship between Risk Management and Firm Performance.
- 6. Examine the moderating role of Corporate Governance in the relationship between Ethical Leadership and Firm Performance.

### **Research Contributions**

The anticipated contributions of this study are as follows:

- 1. Enriching academic literature on Green Supply Chain Management, Risk Management, Ethical Leadership, Corporate Performance, and Governance, especially within the context of developing economies.
- 2. Enhancing understanding of supply chain performance by exploring its intersection with risk and ethical leadership, which has been underrepresented in existing studies.
- 3. Providing practical insights for managers on the role of green supply chains and risk mitigation strategies in maintaining business continuity amid environmental turbulence.

2025, 10(54s) e-ISSN: 2468-4376

https://www.jisem-journal.com/

#### **Research Article**

Supporting businesses in evaluating and improving their supply chain performance, thereby enabling more informed decision-making to sustain or improve overall firm performance.

#### Theoretical basis

# **Agency Theory**

Study (Jensen, M. C, 1993) describes the agency relationship as a relationship between the owner of the company ( *principal* ) and the agent, with the delegation of decision-making authority to the agent. In an agency relationship, there may be a conflict of interest between the principal and the agent. Shareholders demand increased profitability and dividends for the company, while managers are agents who are motivated to maximize the fulfillment of economic needs. And psychological. On base connection agency And principal, management is encouraged to carry out earnings management in presenting financial reports. To That, Wrong one way that can used for monitor contractual issues between management and investors and limiting opportunistic management behavior is through the implementation of GCG.

# **Stakeholder Theory**

Study (Freeman, RE, 1984) concluded that the true purpose of the company is For fulfil need stakeholders, that is which is influenced by the decisions taken by the company. Research (Gray, R., et al , 1995) said that the survival of a company depends on the support of *stakeholders* , and this support must be sought so that the company must seek this support. The stronger the stakeholders, the more companies try to adapt. *Stakeholder theory* is important in this study because the theory is related to stakeholders. Which concerned with company; they Which will affected and influenced by company activities, such as management accountability to *stakeholders* in the form of CSR activities and company financial performance.

### **Supporting Theory**

# Theory of The Green Supply Chain

Draft This describe approach new in management organization which is factor important For reach success in modern and dynamic markets (Sherehiy, B., & Karwowski, W., 2014); (Yusuf, YY, et al, 2014). Indeed, organizations moment This must concentrate on creating dexterity (Shin, H et al, 2015). Agility chain supply identified as factor strategic so that effective For continuity life company (Sukati, I., et al, 2012); (Liu, H. et al, 2013); (Yusuf, YY, et al, 2014).

### Enterprise Risk Management Theory

Risk management has emerged as an important factor in management decisions and control. (Ritchie, B. and Brindley, C., 2007), is widely applied in various fields such as economics, insurance, and manufacturing, among others. While the word risk applies to events that uncertain, possible danger or damage, or consequence other Which No wanted (Harland, C. *et al*, 2003), Which can expressed through probability, management show action or activity organized For control incident This. So, risk management can be understood as a structured process to minimize or mitigate the effects of risk (Wang, H., and Hsu, F., 2009.) or a proactive decision-making process that aims to minimize the consequences of negative events. in time front, with identify potential risk, analyze it and plan response Which required For monitoring And control (Zafiropoulos, L *et al*, 2005); (Mabrouki, C. *et al*, 2014).

# Ethical Leadership Theory

The conceptualization of ethical leadership is associated with (Brown, ME *et al*, 2005), Which define it as "demonstration behavior Which in accordance in a way normative through action personal And connection interpersonal, And promotion of such behavior to followers through two-way communication, reinforcement, and decision making". These authors advance consideration, honesty, trustworthiness, and interactional justice as key attributes of ethical leadership. These traits in leaders' behavior are the reasons for their moral appeal to their followers. This idea is reinforced by the application of social learning theory (Bandura, A., 1977), according to which individuals learn not only by experience but also by observation or "vicariousness". Vicarious learning very in harmony with consequence behavior Which observed (Bandura, A., 1977). Leader is model role behavior in

2025, 10(54s) e-ISSN: 2468-4376

https://www.jisem-journal.com/

#### **Research Article**

organization based on their hierarchical status and authority. They can use this legitimate authority to regulate follower behavior by using rewards and punishments (Brown, ME et al , 2005). (Brown, ME et al , 2005) conceptualization of ethical leadership is based on the social learning perspective to authenticate modeling role positive leader from behavior Which in accordance normatively in the work environment.

#### Stewardship Theory

(Shleifer, A., and R. Vishny R., 1997) defines governance company as method in where Supplier finance For company convincing self they Alone For get return investment they. In a tone Which The same, (LaPorta et al, 2002) referring to on order manage company as " a set of mechanism by which foreign investors protect self they from takeover by manager And holder share controller ". Definition the reflect perspective narrow governance company based on orientation holder share or holder share, Which become base thinking model theory governance agency company, where holder share as principal delegate role to manager as agent, Where There is distribution risk between entities and conflicts latent interests (Eisenhardt, KM, 1989).

### **Company performance**

Flapper *et al* . (1996) stated that performance is something that is very important for an organization: the success and sustainability of an organization depends on its performance. According to Flapper, performance can be defined as the way an organization carries out its goals.

Measurement objectives performance is For Motivate behavior that leads to on improvement sustainable in satisfaction customer, flexibility, and productivity. In the context of development product, more interpretation specific from draft performance has presented by Ulrich and Eppinger (1995). Five dimensions related to with the benefits achieved by (product) new) can used For evaluate performance effort development product (adapted) from Ulrich & Eppinger, 1995, pp. 2–3).

#### **Study Previous**

Research conducted by Tooranlo *et al* . (2018), argues that *The agility of the green supply chain* as an operational capability in responding quickly to uncertain and volatile markers not only improves company performance, but also leads to reduced costs and increased professional capabilities. The results of the study indicate that the factors of supplier and customer relationships, performance, marketing and process integration have the most importance as factors influencing the green agility of the supply chain and the factors of IT and Intellectual Capital have the lowest relative importance in evaluating the indicators of green supply chain agility. Therefore, this company can achieve an agile green supply chain by supporting information integration through collaborative planning and sharing key information.

Research by Almeida *et al* (2019) shows that *Enterprise Architecture Models* (EA) and EA tools can help reduce the complexity of the ISO 31000 standard and improve communication between stakeholders.

Ahmad *et al's* (2019) research shows that the occurrence of unethical behavior plays a stronger role than ethical behavior in shaping employee well-being. This finding provides support for the perspective of the conservation of resources theory ( *The Conservation of Resources Theoretical* ) by reiterating the importance of resource loss over resource gain in shaping employee well-being.

Young, Stephen B (2009) concludes that the US perspective on corporate governance is rational in relation to the objective requirements of finance companies and that, as capital markets become larger and more liquid worldwide, corporate governance regimes will essentially resemble the US model. Although cultural variations on the US pattern are consistent with the corporate governance objective of limiting abuse of power in private companies.

# **Hypothesis**

### **Green Supply Chain Impacts Company Performance**

According to (Migdadi, 2019; Zou *et al.*, 2021) Researchers have developed the concept of supply chain management into a more effective concept that is more concerned with the environment. Green supply chain is one of the processes that can be effective in considering environmental issues (Anvari, 2021; Hafezalkotob, 2019; Jazairy, 2020; Lähdeaho

2025, 10(54s) e-ISSN: 2468-4376

https://www.jisem-journal.com/

#### **Research Article**

et al., 2020) and its practices in all work processes in every company, so that the concept of green supply chain has emerged with the acceleration of government regulations and rules to be achieved (Habib et al., 2020; Rebs et al., 2018). Green supply chains are intended to reduce environmental risks and negative environmental impacts while increasing ecological efficiency (Irani et al., 2017; Jazairy, 2020; Masudin et al., 2018) and eliminating environmental waste in organizations (Chanchaichujit, 2020; Irani et al., 2017; Nazam et al., 2020). The hypotheses built based on these explanations are as follows:

# H1: The influence of green supply chain influence on Company Performance

### **Risk Management Affects Company Performance**

Risk management has become a fundamental concern in today's global environment. Risk management is the process by which an association identifies future threats and analyzes them to examine alternatives to the threat or reduce the threat. The implementation of risk management requires leadership and commitment from top management, as well as active involvement from all members of the organization. This relationship reinforces the relevance and importance of risk (Gjerdrum and Peter, 2011). To be applied to different risks and activities, the approach proposed in the standard is basically intended to be generic and rational (Lalonde and Boiral, 2012). The hypothesis built on this explanation is as follows:

# H2: Risk Management has an effect on Company Performance

### **Ethical Leadership Affects Company Performance**

The conceptualization of ethical leadership is associated with Brown *et al* . (2005, p. 120), who define it as "the demonstration of normatively appropriate behavior through personal actions and interpersonal relationships, and the promotion of such behavior to followers through two-way communication, reinforcement, and decision making". Some researchers advance consideration, honesty, trust, and interactional justice as key attributes of ethical leadership. Ethical leaders are fair, caring, trustworthy, helpful and supportive (Chughtai *et al* ., 2015; Kalshoven and Boon, 2012; Miao *et al* ., 2013; Wilson and McCalman, 2017) and can provide sources of emotional and interpersonal support that are valued by employees. The hypotheses built based on these explanations are as follows:

# H3: Ethical Leadership influence on Company Performance

# **Governance Moderates Green Supply Chain and Firm Performance**

The role of good governance practices became more important after the collapse of companies such as WorldCom and Enron in the US, as well as Chengdu Hongguang and Yinguangxia in China (Fu, 2010). There is a perception that the lack of good governance practices contributed to the failure of these companies. Good governance practices can generally improve company performance (Bhagat & Bolton, 2019; Brogi & Lagasio, 2022; Naciti, 2019; Paniagua, 2018; Uyar *et al.*, 2021). More specifically, well-governed companies have better operating performance because good governance reduces the control rights granted by shareholders and creditors (Shleifer and Vishny, 1994). The hypotheses built based on this explanation are as follows:

# H4: Governance Moderates Green Supply Chain and Firm Performance

# **Governance Moderates Risk Management and Corporate Performance**

Stulz (2008) suggests that risk management due to neglect of corporate governance can be caused by: risk events are often unrelated to strategy, risk definitions are often poorly expressed and therefore not fully understood, organizations are not always able to develop intelligent responses to risk, or boards of directors do not consider corporate governance in detailing risk responses. Stulz (2008) notes that risk management systems can be damaged and corporate governance can become ineffective in the following cases: failure to use an appropriate risk matrix, failure by lower-level managers to communicate risk to top management, or failure to monitor risk and manage risk. Krause and Tse (2016) examine the relationship between risk management and firm value. They conclude that more effective risk management practices replace corporate governance to reduce cash flow volatility, improve financial performance, and increase firm value. The hypotheses built based on these explanations are as follows:

# H<sub>5</sub>: Governance Moderates Risk Management and Firm Performance

2025, 10(54s) e-ISSN: 2468-4376

https://www.jisem-journal.com/ Research Article

### **Governance Moderates Ethical Leadership and Corporate Performance**

Mayer's (1997) study examined the interconnection between governance and trust. Trust was identified by Wang and Chen (2004) as one of the four pillars of corporate governance. Building a climate of trust is essential for effective governance (Ghillyer, 2008, p. 85). Child and Rodrigues' (2004) study revealed that policies, which can help improve employee trust, strengthen governance. The organization's distinctive trust system and its competence to replicating and exploiting trust relationships is responsible for improving governance policies and overall competitive advantage (Rodgers, 2009). Skinner and Spira (2003) illustrate the complexity of the relationship between trust and control in the context of governance by studying the internal audit technique of self-assessment control. Based on the above arguments the following hypothesis is proposed:

### **H6: Governance Moderates Ethical Leadership and Company Performance**

#### **METHODS**

This type of research is empirical research with hypothesis testing, namely testing the influence of green supply chains, risk management, and ethical leadership on company performance with governance as a moderating variable. The research data is primary data sourced from the respondent level in manufacturing companies at the *Middle Manager*, *Supervisor*, Production Staff, Warehouse Staff , *Quality Control* Staff levels in large industrial areas such as the MM 2100 Cibitung Industrial Area.

#### **Population and Research Sample**

The population in this study is manufacturing companies. Based on data from the MM 2100 Cibitung industrial area, there are 153 companies. This study will distribute questionnaires to 60 companies where each company will be taken as many as 2-3 respondents, namely *Middle Managers*, *Supervisors*, Production Staff, Warehouse Staff , *Quality Control* Staff , who work at the MM 2100 Industrial Area Manufacturing Company.

### **Development of Measurement Instruments and Scales**

This study uses primary data with a survey method using an online questionnaire built based on theoretical and empirical studies relevant to the research variables. The online questionnaire uses a 4-point Likert scales interval scale (Chomeya, 2010; Feldmen *et al.*, 2013) to make it easier for respondents to answer questions, and the answers to the statements given by respondents are; Strongly Disagree (STS), Disagree (TS), Agree (S), and Strongly Agree (SS).

#### 1. Materials and Methods

#### **Descriptive Statistical Analysis**

Descriptive statistics deals with the collection and summarization of data and presenting the results of the summary. Statistical data that can be obtained from survey results, and other observations with data that is still raw, random and not well organized. The data must be summarized well and orderly, both in the form of tables and graphs, can be used as a basis for decision making.

# Partial Least Square (PLS) Analysis

This study uses the *Partial Least Square (PLS) analysis method* to measure the direct and indirect influence of governance variables, *intellectual capital* and company performance. This study selects using PLS because each variable, both dependent and independent, is a formative constructed latent variable that has measurement indicators.

### Model Measurement (Outer Model)

The outer model is also often called (outer relation or measurement model) which defines how each indicator block relates to its latent variables.

# **Convergent Validity Test**

Convergent validity in SEM PLS is used as one of the evaluations for the measurement model ( outer model ).

2025, 10(54s) e-ISSN: 2468-4376

https://www.jisem-journal.com/

#### **Research Article**

Convergent validity is a type of validity that is related to the principle that the measurer of a construct must have a high correlation so that it is used to measure the magnitude of the correlation between latent variables and manifest variables in the reflexive measurement model.

# **Discriminant Validity Test**

One of the evaluations to measure the measurement model ( *outer model* ) is discriminant validity. Since discriminant validity is related to the principle that different construct measures should not be highly correlated, the discriminant validity of the reflexive measurement model can be calculated based on the *cross loading value* of the manifest variable against each latent variable.

# **Reliability Test**

Reliability Test on SEM-PLS model is used as one of the evaluations for measurement model ( *outer model* ). Latent variable can be said to have good reliability if the *composite reliability value* greater than 0.6 and can be strengthened by *a Cronbach's alpha value* greater than 0.7 (Sarwono and Narimawati, 2015).

### Structural Measurement (Inner Model)

The structural model ( *inner model* ) is a structural model to predict causal relationships between latent variables. Through the bootstrapping process by looking at *the path coefficient* to predict the existence of a causal relationship.

# R-Squared (R2) Test

The R-squared (R2) test is a test conducted to measure the level of *Goodness of Fit* of a structural model. The R-squared (R2) value is used to measure how much influence a particular independent latent variable has on the dependent latent variable.

# **Hypothesis Testing**

The proposed hypothesis testing is done by testing the *inner model structural model* by looking at the R-square value which is a *goodness-fit model test*. In addition, by looking at *the path coefficients* which show the parameter coefficients and the significance value of the t statistic.

### **Respondent Description Based on Position**

For the general description of respondents obtained from the demographic information section data contained in the research questionnaire. The following composition of respondents based on position in this study can be seen in Table 4.1.

Table 1 Classification of Respondents Based on Position

Information	Number of people)	%
Middle Manager	25	16.3%
Supervisor	22	14.4%
Production Staff	45	29.4%
Warehouse Staff	30	19.6%
Quality Control Staff	31	20.3%
Total	153	100%

The table above shows that the respondents in this study were 25 *middle managers* with a percentage value of 16.3%. As many as 22 supervisors with a percentage value of 14.4%. As many as 45 production staff with a percentage value of 29.4%. As many as 30 warehouse staff with a percentage value of 19.6%. While the remaining 31 *quality control staff* with a percentage value of 20.3%. Thus the largest number of respondents were production staff.

2025, 10(54s) e-ISSN: 2468-4376

https://www.jisem-journal.com/ Research Article

### Outer Model Test (Measurement Model)

Several criteria in using data analysis techniques with SmartPLS to assess the outer model, namely the convergent validity test, the discriminant validity test, and the composite reliability test.

# **Convergent Validity Test**

Convergent validity checks can be seen from the constructs on *the loading factor values* of each indicator. The *loading factor limit* used for confirmatory research *is* 0.7. Meanwhile, the *loading factor limit* used for explanatory research *is* 0.6 and the *loading factor limit* used for production research *is* 0.5 (Wiyarni & Bunyamin, 2021).

Table 2 Convergent Validity Test Results (Green Supply Chain and Risk Management)

Indicator	Chain Green Supply	Indicator	Management Risk
RPH 1	0.859	MR 1	0.841
RPH 2	0.883	MR 2	0.841
RPH 3	0.868	MR 3	0.873
RPH 4	0.854	MR 4	0.860
RPH 5	0.862	MR 5	0.798
RPH 6	0.847	MR 6	0.862
RPH 7	0.834	MR 7	0.854

Source: Processed data, SmartPLS 4.0 2025

Table 3 Results of Convergent Validity Test (Ethical Leadership and Governance)

Indicator	Leadership Ethical	Indicator	Governance
TO 1	0.899	Kindergarten 1	0.877
TO 2	0.853	Kindergarten 2	0.857
THE 3RD	0.878	Kindergarten 3	0.844
TO 4	0.874	Kindergarten 4	0.873
TO 5	0.862	Kindergarten 5	0.854

Source: Processed data, SmartPLS 4.0 2025

Table 4 Convergent Validity Test Results (Company Performance)

Indicator	Company
indicator	performance
KP 1	0.890
KP 2	0.945
KP 3	0.901
KP 4	0.862
KP 5	0.891
KP 6	0.856

Source: Processed data, SmartPLS 4.0 2025

2025, 10(54s) e-ISSN: 2468-4376

https://www.jisem-journal.com/

#### **Research Article**

Table 5 Results of Convergent Validity Test (TK x RPH, TK x MR, TK x KE)

Indicator	Kindergarten x RPH	Indicator	Kindergarten x MR	Indicator	Kindergarten x KE
Kindergarten x RPH	1,000	Kindergarten x MR	1,000	Kindergarten x KE	1,000

Source: Processed data, SmartPLS 4.0 2025

Based on tables 2, 3, 4, and 5, all indicators show *loading factor values* > 0.70. This shows that all indicators have met the requirements of *convergent* and valid validity.

# Discriminant Validity Test

*Discriminant* validity is assessed based on the *cross loading* value for each variable must be greater than 0.7. The correlation value between variables in the model can also be compared with the square root of AVE for each variable (Widajantie & Dewi, 2020).

Table 6 Results of Discriminant Validity Test

Indicat or	Chai n Gree n Sup ply	Manage ment Risk	Leadersh ip Ethical	Company perform ance	Governa nce	Kinderga rten x RPH	Kinderga rten x MR	Kinderga rten x KE
RPH 1	0.85 9	0.549	0.540	0.278	0.542	0.432	0.430	0.381
RPH 2	0.88 3	0.662	0.680	0.376	0.677	0.605	0.501	0.486
RPH 3	0.86 8	0.650	0.632	0.376	0.652	0.583	0.505	0.451
RPH 4	0.8 <sub>5</sub>	0.722	0.702	0.286	0.690	0.721	0.554	0.514
RPH 5	0.86	0.594	0.632	0.274	0.598	0.521	0.493	0.511
RPH 6	<b>0.84</b> 7	0.742	0.709	0.338	0.718	0.742	0.646	0.605
RPH7	0.83 4	0.671	0.684	0.313	0.652	0.663	0.551	0.530
MR 1	0.68 0	0.841	0.714	0.420	0.690	0.593	0.612	0.552
MR 2	0.658	0.841	0.738	0.556	0.732	0.550	0.566	0.458
MR 3	0.558	0.873	0.756	0.668	0.763	0.473	0.690	0.552
MR 4	0.703	0.860	0.771	0.408	0.749	0.607	0.750	0.599
MR 5	0.722	0.798	0.740	0.275	0.662	0.733	0.647	0.576
MR 6	0.703	0.862	0.731	0.426	0.770	0.623	0.772	0.598
MR 7	0.622	0.854	0.733	0.440	0.731	0.557	0.768	0.632
TO 1	0.786	0.780	0.899	0.474	0.793	0.644	0.633	0.714
TO 2	0.627	0.771	0.853	0.363	0.630	0.630	0.574	0.652
THE 3RD	0.695	0.726	0.878	0.349	0.663	0.501	0.559	0.630

2025, 10(54s) e-ISSN: 2468-4376

https://www.jisem-journal.com/

### **Research Article**

Indicat or	Chai n Gree n Sup ply	Manage ment Risk	Leadersh ip Ethical	Company perform ance	Governa nce	Kinderga rten x RPH	Kinderga rten x MR	Kinderga rten x KE
TO 4	0.642	0.765	0.874	0.414	0.729	0.610	0.669	0.687
TO 5	0.585	0.758	0.862	0.469	0.644	0.465	0.517	0.533
KP 1	0.232	0.418	0.327	0.890	0.526	0.015	0.165	0.062
KP 2	0.451	0.596	0.542	0.945	0.691	0.286	0.380	0.322
KP 3	0.252	0.376	0.298	0.901	0.489	0.019	0.105	0.013
KP 4	0.444	0.614	0.522	0.862	0.716	0.282	0.474	0.316
KP 5	0.254	0.418	0.379	0.891	0.528	0.090	0.211	0.184
KP 6	0.332	0.551	0.438	0.856	0.651	0.216	0.422	0.263
Kinderga rten 1	0.738	0.817	0.751	0.456	0.877	0.657	0.736	0.628
Kinderga rten 2	0.544	0.739	0.664	0.546	0.857	0.572	0.744	0.633
Kinderga rten 3	0.604	0.649	0.634	0.602	0.844	0.564	0.635	0.577
Kinderga rten 4	0.697	0.782	0.722	0.765	0.873	0.612	0.619	0.555
Kinderga rten 5	0.684	0.734	0.657	0.480	0.854	0.598	0.664	0.548
Kinderga rten x RPH	0.714	0.674	0.653	0.185	0.680	1,000	0.791	0.792
Kinderga rten x MR	0.614	0.804	0.676	0.348	0.781	0.791	1,000	0.861
Kinderga rten x KE	0.580	0.659	0.735	0.233	0.695	0.792	0.861	1,000

Source: Processed data, SmartPLS 4.0 2025

Based on table 4.6, each variable in this study shows a *cross loading value* greater than 0.70 and has a higher AVE square root value than the correlation between variables. Based on the results of this test, it can be concluded that all variables meet the *rule of thumb criteria* for *discriminant validity*.

# Composite Reliability Test

Composite reliability test is conducted to prove the accuracy, consistency and precision of the instrument in measuring the construct. The *composite reliability value* must be greater than 0.7 for *confirmatory research* and a value of 0.6-0.7 is still acceptable for exploratory research (Widajantie & Dewi, 2020).

# Composite Reliability Test Results

Variables	Cronbach's Alpha	Composite Reliability (rho_a)	Composite Reliability (rho_c)	Average Variance Extracted (AVE)
Chain Green Supply	0.941	0.947	0.951	0.737

2025, 10(54s) e-ISSN: 2468-4376

https://www.jisem-journal.com/ Research Article

Management Risk	0.936	0.963	0.947	0.718
Leadership Ethical	0.922	0.932	0.941	0.763
Company performance	0.948	0.955	0.959	0.794
Governance	0.914	0.938	0.935	0.741

Source: Processed data, SmartPLS 4.0 2025

Based on table 7, it is obtained that *the composite reliability* for the green supply chain variable is 0.951, risk management is 0.947, ethical leadership is 0.941, company performance is 0.959, and corporate governance is 0.935. The results of this *composite reliability test* show that each variable has a value above 0.70, indicating that all constructs meet the criteria for good reliability. Furthermore, the evaluation using *Cronbach's alpha* shows a value for the green supply chain of 0.941, risk management is 0.936, ethical leadership is 0.922, company performance is 0.948, and governance is 0.914. With *a Cronbach's alpha value* above 0.50, it can be concluded that all constructs still meet the criteria for good reliability.

#### **RESULTS**

### Inner Model Test (Structural Model)

The measurement of the inner model shows the strength of the estimation between latent variables or constructs (Ghozali & Latan, 2015: 78-80). The inner model is evaluated by looking at the percentage of explained variance, namely by looking at the R-Square value.

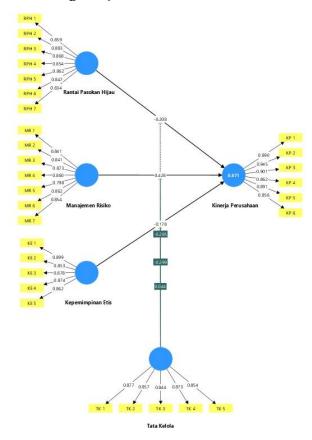


Figure 4.1 1Model Test Results

Source: Processed data, SmartPLS 4.0 2025

# **R-Sqruare or Determinant Coefficient**

R2) values into strong categories with a value of (0.67), moderate with a value of (0.33), and weak with a value of (0.19), the coefficient of determination (R2) value is used to explain the influence of independent variables on dependent variables (Widajantie & Dewi, 2020).

**Table 8 Results of the R-Square Test or Determinant Coefficient** 

	R-square	R-square adjusted
Company performance	0.671	0.654

Source: Processed data, SmartPLS 4.0 2025

Based on table 8 shows the Adjusted R-Square value for the company performance variable obtained 0.654. These results indicate that green supply chain, risk management, ethical leadership are able to explain the company performance variable by 65.4% and the remaining 34.6% is explained by other variables that are not hypothesized in the model.

# Hypothesis Testing (Bootstrapping)

In hypothesis testing using the *bootstrapping method*, the t statistic and p-value are used to determine whether the null hypothesis is accepted or rejected. Since the research hypothesis is a one-way hypothesis, if the P-value <0.05 and t table> 1.976, then the exogenous variable has a major effect on the endogenous variable (Wiyarni & Bunyamin, 2021).

# Table 9 Hypothesis Test Results ( Bootstrapping )

Source: Processed data, SmartPLS 4.0 2025

	Original sample (O)	Sample mean (M)	Standard deviation (STDEV)	T statistics ( O/STDEV )	P values	Information
Chain Green Supply -> Company Performance	-0.208	-0.216	0.103	2,015	0.044	Accepted
Management Risk -> Company Performance	0.426	0.403	0.178	2,399	0.016	Accepted
Leadership Ethics -> Company Performance	-0.178	-0.152	0.177	1,001	0.317	Rejected
Governance -> Corporate Performance	1,147	1,165	0.137	8,395	0,000	Accepted
Governance x Chain Green Supply -> Company Performance	-0.285	-0.283	0.097	2,927	0.003	Accepted
Governance x Management Risk -> Company Performance	-0.299	-0.289	0.121	2,463	0.014	Accepted
Governance x Leadership Ethics -> Company Performance	0.044	0.027	0.123	0.358	0.721	Rejected

Based on the table showing the results of hypothesis testing in the *path table coefficients* stated that the hypothesis is accepted if the t statistic value > 1.976 or P Value or sig value < 0.05. The following is an analysis of the hypothesis test:

- 1. Green Supply Chain has an effect on company performance, obtained t statistics of 2.015 > 1.976, significance value of 0.044 < 0.05 and *original sample* -0.208.
- 2. Risk Management has an effect on company performance, obtained t statistics of 2.399 > 1.976, significance value of 0.016 < 0.05 and *original sample* 0.426.

- 3. Ethical Leadership does not affect company performance, the t statistic obtained is 1.001 < 1.976, the significance value is 0.317 > 0.05 and *the original sample* is -0.178.
- 4. Governance has an effect on company performance, obtained t statistics of 8.395 > 1.976, significance value of 0.000 < 0.05 and *original sample* 1.147.
- 5. Governance moderates green supply chain on company performance, obtained t statistic of 2.927 > 1.976, significance value of 0.003 < 0.05 and *original sample* -0.285.
- 6. Governance moderates risk management on company performance, obtained t statistics of 2.463 > 1.976, significance value of 0.014 < 0.05 and *original sample* -0.299.

Governance does not moderate ethical leadership on company performance, obtained t statistics of 0.358 < 1.976, significance value of 0.0721 > 0.05 and *original sample* 0.044.

#### DISCUSSION

## The Impact of Green Supply Chain on Company Performance

Research result show that chain supply green influential to performance company with P values are 0.044 and t-statistics of 2,015. The results of the study This in line with research (Andiappan *et al.*, 2022; Hafezalkotob, 2019; Teixeira, 2020; Zou *et al.*, 2021). This matter indicates that the better implementation chain supply green in company, then performance company will increase. Chain supply green covers various friendly practice environment, such as use material sustainable raw materials, management more waste good, and efficiency in use source Power nature (Syamil *et al.*, 2023).

## The Influence of Risk Management on Company Performance

Based on results research, management risk own influence on performance company with P values of 0.016 and t-statistics of 2,399. The results of the study This in line with research (Amanor & Tetteh, 2022; Ghazieh & Chebana, 2021; Loska & Higa, 2020). This matter shows that companies that have system management good risk will more capably face uncertainty and optimizing performance. Management risk help company in identify, measure, and control various risks that can occur hinder achievement objective business (Thian, 2021). Approach proactive in management risk allow company for anticipate and respond problem like risk financial, operational, compliance and reputation with faster and more effective. System management good risk help company avoid loss big that can happen Because unpreparedness for adapt self with change in environment business (Radiansyah *et al*, 2023).

#### The Influence of Ethical Leadership on Company Performance

Research result show that leadership ethical No influential to performance company, with P values of 0.317 and t-statistics of 1.001. The results of the study This in line with research (Lameck, 2022; McKimm & McLean, 2020; Moon & Kahlor, 2022). This indicates that although leadership ethical own role important in organization, its influence to performance company No significant in study This.

# **Governance Moderates Green Supply Chain on Firm Performance**

Research result show that governance to moderate influence chain supply green to performance company, with P value of 0.003 and t- statistic of 2,927. This means that the better governance, increasingly strong connection between chain supply green and performance company. Good governance ensure that the chain strategy supply green run in a way consistent and transparent (Syamil *et al*, 2023). Companies that have strong governance more capable enter element sustainability to in the decision they made make. This thing produce balance between interest environmental, economic, and social (Adrai & Perkasa, 2024).

# **Governance Moderates Risk Management on Corporate Performance**

This result confirms that the existence of good governance capable strengthen connection between management risk and performance company. Company with strong governance tend more tough in face uncertainty Because they can be more systematic in identify, assess, and manage risks faced (Judijanto *et al.*, 2025).

# **Governance Moderates Ethical Leadership on Corporate Performance**

This result show that governance No capable strengthen connection between leadership ethics and performance

company. This indicates that although company have good governance, things the No as well as immediately increase impact leadership ethical to performance company.

#### **CONCLUSION**

The purpose of this study is to analyze the influence of green supply chains, risk management, and ethical leadership on company performance and to examine the role of governance in strengthening or weakening green supply chains, corporate risk management and ethical leadership on company performance in the MM 2100 Industrial Area. Based on the results and discussions described, it can be concluded that:

- 1. Green Supply Chain affects company performance.
- 2. Risk Management affects company performance.
- 3. Ethical Leadership has no effect on company performance.
- 4. Governance moderates green supply chain on firm performance.
- 5. Governance moderates risk management on company performance.

Governance does not moderate ethical leadership on firm performance.

# Acknowledgment

I would like to express my deepest gratitude to all those who contributed to the completion of this research on "The Impact of Green Supply Chain Practices, Risk Management, and Ethical Leadership on Corporate Performance: The Moderating Role of Governance." I am especially grateful to the scholars and industry experts whose insights helped shape the direction of this study. Their valuable guidance has significantly enriched the research, highlighting the critical role of sustainable practices, effective risk management strategies, and ethical leadership in enhancing corporate performance. I also appreciate the support and resources provided by my academic institution and colleagues, which made this study possible. Lastly, I would like to acknowledge the importance of governance as a moderating factor, which emerged as a crucial element in driving the positive impact of these practices on organizational outcomes.

# **Ethical considerations**

Ethical considerations in the context of "The Impact of Green Supply Chain Practices, Risk Management, and Ethical Leadership on Corporate Performance: The Moderating Role of Governance" emphasize the responsibility of businesses to integrate sustainable practices that not only enhance their performance but also contribute positively to society and the environment. Green supply chain practices demand transparency and accountability in sourcing materials, minimizing environmental impact, and ensuring that products are produced with respect for human rights. Risk management strategies must be ethically aligned, ensuring that potential negative outcomes are identified and mitigated without exploiting vulnerable communities or the environment. Ethical leadership plays a pivotal role in fostering a corporate culture that prioritizes ethical decision-making, responsible innovation, and long-term value creation over short-term profits. Moreover, governance structures must be robust and effective, ensuring that ethical practices are upheld throughout the organization and that corporate actions align with broader societal values, thus enhancing corporate performance while ensuring compliance with ethical standards and sustainability goals.

#### **Conflict of Interest**

The authors declare no conflicts of interest concerning the research presented in this study on the impact of green supply chain practices, risk management, and ethical leadership on corporate performance, with a particular focus on the moderating role of governance. The research was conducted impartially, and all data used in this study were gathered from publicly available sources without any external influence from stakeholders or organizations that could benefit financially or otherwise from the results. Additionally, there were no personal, professional, or financial relationships that could be perceived to have influenced the outcomes or interpretation of the findings in this paper.

# **Funding**

The funding for this research on The Impact of Green Supply Chain Practices, Risk Management, and Ethical Leadership on Corporate Performance: The Moderating Role of Governance aims to explore the integration of sustainable practices within corporate strategies and their impact on overall business performance. This study will

focus on how green supply chain initiatives, effective risk management strategies, and ethical leadership practices contribute to corporate success while emphasizing the role of governance as a moderating factor. Funding will support the collection and analysis of data from various industries, allowing for a comprehensive understanding of how these factors interact and influence corporate outcomes. Additionally, the research will assess how governance mechanisms can either strengthen or weaken the relationship between sustainability-driven practices and firm performance, offering valuable insights for businesses looking to improve their competitive edge while adhering to ethical and environmental standards.

#### **REFRENCES**

- [1] Adnan, N., Bhatti, OK, & Farooq, W. (2020). Relating ethical leadership with work engagement: how workplace spirituality mediates?. Cogent Business & Management, 7(1), 1739494.
- [2] Adrai, R., & Perkasa, DH (2024). Application of Business Ethics and Corporate Social Responsibility in International Human Resources Management. Journal Civil Management and Business, 6 (2), 68-85.
- [3] Ahmad, I., & Umrani, WA (2019). The impact of ethical leadership style on job satisfaction: Mediating role of perception of Green HRM and psychological safety. Leadership & Organization Development Journal, 40 (5), 534-547.
- [4] Almeida, R., Teixeira, J.M., Mira da Silva, M., & Faroleiro, P. (2019). A conceptual model for enterprise risk management. Journal of Enterprise Information Management, 32 (5), 843-868.
- [5] Amaranti, R., Irianto, D., Govindaraju, R., Magister, S., Doktor, D., Dan, T., ... & Industri, FT (2017). Green manufacturing: a study literature. In IDEC National Seminar and Conference (Vol. 8, No. 9, pp. 2579-6429).
- [6] Andiappan , V., Foo, D.C., & Tan, R.R. (2022). Automated targeting for green supply chain planning considering inventory storage losses, production and set-up time. Journal of Industrial and Production Engineering , 39 (5), 341-352.
- [7] Anvari, A. R. (2021). The integration of LARG supply chain paradigms and supply chain sustainable performance (A case study of Iran). Production & manufacturing research, 9 (1), 157-177.
- [8] Standardization Agency . (2018). Grand Design of Implementation Management Risk . Grand Design Implementation Management Risks at the National Standardization Agency , 2018-2023 .
- [9] Bandura, A. (1977). Social Learning Theory. Prentice-Hall, Englewood Cliffos, NJ. Brown, M.E. et al. (2005). Ethical leadership: a social learning perspective for construct development and testing. Organizational Behavior and Human Decision Processes, Vol. 97 No. 2, pp. 117-134.
- [10] Bandura, A. (1977). Social Learning Theory. Prentice-Hall, Englewood Cliffos, NJ. Brown, M.E. et al. (2005). Ethical leadership: a social learning perspective for construct development and testing. Organizational Behavior and Human Decision Processes, Vol. 97 No. 2, pp. 117-134.
- [11] Bhagat, S., & Bolton, B. (2019). Corporate governance and firm performance: The sequel. Journal of Corporate Finance, 58, 142-168.
- [12] Brogi , M., & Lagasio , V. (2022). Better safe than sorry. Bank corporate governance, risk-taking, and performance. Finance Research Letters , 44 , 102039.
- [13] Brogi , M., & Lagasio , V. (2022). Better safe than sorry. Bank corporate governance, risk-taking, and performance. Finance Research Letters , 44 , 102039.
- [14] Cabernard , L., Pfister, S., & Hellweg, S. (2022). Improved sustainability assessment of the G20's supply chains of materials, fuels, and food. Environmental Research Letters , 17 (3), 034027.
- [15] Chanchaichujit, J., Balasubramanian, S., Shukla, V., & Rosas, J. S. (2020). Multi-objective decision model for green supply chain management. Cogent Business & Management, 7 (1), 1783177.
- [16] Chanchaichujit , J., Balasubramanian, S., Shukla, V., & Rosas, J. S. (2020). Multi-objective decision model for green supply chain management. Cogent Business & Management , 7 (1), 1783177.
- [17] Child, J., & Rodrigues, S. B. (2004). Repairing the breach of trust in corporate governance. Corporate Governance: An International Review, 12 (2), 143-152.
- [18] Chughtai, A., B et al . (2015). Linking ethical leadership to employee well-being: the role of trust in supervisors. Journal of Business Ethics, Vol. 128 No. 3 , pp. 653-663.
- [19] de Ruiter, M. (2019). Taking the heat or shifting the blame? Ethical leadership in political-administrative relations after policy failures. Public integrity, 21 (6), 557-570.
- [20] Douwe P. Flapper, S., Fortuin, L., & Stoop, P. P. (1996). Towards consistent performance management systems. International journal of operations & production management, 16 (7), 27-37.
- [21] Eisenhardt, K. M. (1989). Agency theory: an assessment and review. The Academy of , pp. 57-74.

- [22] Franczukowska, A. A., Krczal, E., Knapp, C., & Baumgartner, M. (2021). Examining ethical leadership in health care organizations and its impacts on employee work attitudes: an empirical analysis from Austria. Leadership in Health Services, 34 (3), 229-247.
- [23] Freeman, R.E. (1984) . ) , Strategic Management: A Stakeholder Perspective , . Pitman, Boston, MA (in Languages) .
- [24] Fu, J. (2010). Corporate disclosure and corporate governance in China.
- [25] Gellert, R. (2020). The risk-based approach to data protection. Oxford University Press.
- [26] Ghazieh, L., & Chebana, N. (2021). The effectiveness of risk management systems and firm performance in the European context. Journal of Economics, Finance and Administrative Science, 26 (52), 182-196.
- [27] Ghozali , I., & Latan, H. (2015). Partial Least Square Concept , Technique and Application Using SmartPLS 3.0 Program (2nd ed.). Publishing Agency Undip .
- [28] Gjerdrum, D., & Peter, M. (2011). The new international standard on the practice of risk management—A comparison of ISO 31000: 2009 and the COSO ERM framework. Risk management, 31 (21), 8-12.
- [29] Gray, R., et al. (1995). Corporate social and environmental reporting: a review of the literature and a longitudinal study of UK disclosure. Accounting, Auditing & Accountability Journal, Vol. 8 No. 2, pp. 47-77.
- [30] Habib, M.A., Bao, Y., & Ilmudeen , A. (2020). The impact of green entrepreneurial orientation, market orientation and green supply chain management practices on sustainable firm performance. Cogent Business & Management , 7 (1), 1743616.
- [31] Hafezalkotob, A., & Zamani, S. (2019). A multi-product green supply chain under government supervision with price and demand uncertainty. Journal of Industrial Engineering International, 15 (1), 193-206.
- [32] Harland, C. et al. (2003). Risk in supply networks. J. Purch. Supply Manag. 9(2), 51-62.
- [33] Hassan, S. (2019). We need more research on unethical leadership behavior in public organizations. Public Integrity, 21(6), 553-556.
- [34] Irani, Z., Kamal, M.M., Sharif, A., & Love, P.E. (2017). Enabling sustainable energy futures: factors influencing green supply chain collaboration. Production Planning & Control, 28 (6-8), 684-705.
- [35] Iswajuni, I., Manaksia, A., & Soetedjo, S. (2018). The effect of enterprise risk management (ERM) on firm value in manufacturing companies listed on the Indonesian Stock Exchange year 2010-2013. Asian Journal of Accounting Research, 3 (2), 224-235.
- [36] Jazairy, A., & von Haartman, R. (2020). Analyzing the institutional pressures on shippers and logistics service providers to implement green supply chain management practices. International Journal of Logistics Research and Applications, 23 (1), 44-84.
- [37] Jensen, M. C. (1993). The modern industrial revolution, exit, and the failure of internal control systems. Journal of Finance, 48(3), 831-880.
- [38] Judijanto , L., Shalihah , MA, Desi, DE, Kusumastuti , SY, Rahayu, DH, Apriyanto , A., & Winarto , BR (2025). Management Risk . PT. Sonpedia Publishing Indonesia.
- [39] Julmi, C., Pereira, J.M., Bramlage, J.K., & Jackenkroll, B. (2022). Explaining the relationship between ethical leadership and burnout facets in the academic context: the mediating role of illegitimate tasks. International Journal of Organization Theory & Behavior, 25 (1/2), 39-55.
- [40] Kalshoven, K. and Boon, C. T. (2012). Ethical leadership, employee well-being, and helping. Journal of Personnel Psychology, Vol. 11 No. 1, pp. 60-68.
- [41] Karsten, N. (2019). Not biting the hand that feeds you: How perverted accountability affects the ethical leadership of Dutch majors. Public Integrity, 21(6), 571-581.
- [42] Khorasani, ST, & Almasifard, M. (2018). The development of a green supply chain dual-objective facility by considering different levels of uncertainty. Journal of Industrial Engineering International, 14, 593-602.
- [43] Krause, T. A., & Tse, Y. (2016). Risk management and firm value: recent theory and evidence. International Journal of Accounting and information management, 24 (1), 56-81.
- [44] Kumar, A., Zavadskas, E.K., Mangla, S.K., Agrawal, V., Sharma, K., & Gupta, D. (2019). When risks need attention: adoption of green supply chain initiatives in the pharmaceutical industry. International Journal of Production Research, 57(11), 3554-3576.
- [45] Kwateng, K.O., Amanor, C., & Tetteh, F.K. (2022). Enterprise risk management and information technology security in the financial sector. Information & Computer Security, 30 (3), 422-451.
- [46] Lähdeaho , O., Hilmola , O.P., & Kajatkari , R. (2020). Maritime supply chain sustainability: South-East Finland case study. Journal of Shipping and Trade , 5 , 1-15.
- [47] Lalonde, C., & Boiral, O. (2012). Managing risks through ISO 31000: A critical analysis. Risk management, 14, 272-300.

- [48] Lameck, W.U. (2022). The influence of ethical leadership in the delivery of agricultural advisory services in Tanzania local government authorities. Public Administration and Policy, 25 (1), 78-88.
- [49] LaPorta et al. (2002). Investor protection and corporate. Journal of Finance, Vol. 57, no. 3, pp. 1147-1170.
- [50] Li, G., Li, L., Choi, T.M., & Sethi, S.P. (2020). Green supply chain management in Chinese firms: Innovative measures and the moderating role of quick response technology. Journal of Operations Management, 66 (7-8), 958-988.
- [51] Liu, H. et al. (2013). The impact of IT capabilities on firm performance: The mediating role of absorptive capacity and supply chain agility. Decision Support Systems, 54(3), 1452-1462.
- [52] Loska, D., & Higa, J. (2020). The risk to reconstitution: supply chain risk management for the future of the US Air Force's organic supply chain. Journal of Defense Analytics and Logistics, 4 (1), 19-40.
- [53] Luthra, S., & Mangla, S. K. (2018). When strategies matter: Adoption of sustainable supply chain management practices in an emerging economy's context. Resources, Conservation and Recycling, 138, 194-206.
- [54] Mabrouki, C. et al. (2014). A decision support methodology for. Saf. Sci. 63, 124-132.
- [55] Masudin, I., Wastono, T., & Zulfikarijah, F. (2018). The effect of managerial intention and initiative on green supply chain management adoption in Indonesian manufacturing performance. Cogent Business & Management, 5 (1), 1485212.
- [56] Mathivathanan, D., Kannan, D., & Haq, A.N. (2018). Sustainable supply chain management practices in Indian automotive industry: A multi-stakeholder view. Resources, Conservation and Recycling, 128, 284-305.
- [57] Mayer, C. (1997). Corporate governance, competition, and performance. Journal of Law and Society, 24 (1), 152-176.
- [58] McKimm, J., & McLean, M. (2020). Rethinking health professions' educational leadership: Developing 'ecoethical' leaders for a more sustainable world and future. Medical Teacher, 42 (8), 855-860.
- [59] Metwally, M. (2019). Forensic organizational psychology: shedding light on the positive repercussions of ethical leadership in forensic medicine. Egyptian Journal of Forensic Sciences, 9 (1), 32.
- [60] Miao, Q., Newman, A., Yu, J., & Xu, L. (2013). The relationship between ethical leadership and unethical proorganizational behavior: Linear or curvilinear effects?. Journal of business ethics, 116, 641-653.
- [61] Migdadi , YKAA (2019). The effective practices of mobile phone producers' green supply chain management in reducing GHG emissions. Environmental Quality Management , 28 (3), 17-32.
- [62] Moon, W. K., & Kahlor, L. A. (2022). Nanoscientists 'perceptions of serving as ethical leaders within their organizations: Implications from ethical leadership for responsible innovation. Journal of Responsible Innovation, 9 (1), 74-92.
- [63] Naciti , V. (2019). Corporate governance and board of directors: The effect of a board composition on firm sustainability performance. Journal of cleaner production , 237 , 117727.
- [64] Nazam, M., Hashim, M., Ahmad Baig, S., Abrar, M., Ur Rehman, H., Nazim, M., & Raza, A. (2020). Categorizing the barriers in adopting sustainable supply chain initiatives: A way-forward towards business excellence. Cogent business & management, 7 (1), 1825042.
- [65] Nazam, M., Hashim, M., Randhawa, M.A., & Maqbool, A. (2020). Modeling the barriers of sustainable supply chain practices: A Pakistani perspective. In Proceedings of the Thirteenth International Conference on Management Science and Engineering Management: Volume 2 13 (pp. 348-364). Springer International Publishing.
- [66] Özsungur, F. (2019). The impact of ethical leadership on service innovation behavior: The mediating role of psychological capital. Asia Pacific Journal of Innovation and Entrepreneurship, 13 (1), 73-88.
- [67] Paniagua, J., Rivelles, R., & Sapena, J. (2018). Corporate governance and financial performance: The role of ownership and board structure. Journal of Business Research, 89, 229-234.
- [68] Radiansyah , A., Baroroh , N., Fatmah, F., Hulu, D., Syamil , A., Siswanto, A., & Nugroho, F. (2023). Management Corporate Risk : Theory & Case Study. PT. Sonpedia Publishing Indonesia.
- [69] Ritchie, B. and Brindley, C.,. (2007). Supply chain risk management and performance: a. Int. J. Opera. Prod. Manag. 27 (3), , 303-322.
- [70] Rodgers, W., Guiral, A., & Gonzalo, J. A. (2009). Auditor independence and corporate governance: ethical dilemmas. European Journal of International Management, 3 (1), 60-74.
- [71] Roque, A., Moreira, J.M., Figueiredo, J.D., Albuquerque, R., & Gonçalves, H. (2020). Ethics beyond leadership: can ethics survive bad leadership?. Journal of Global Responsibility, 11 (3), 275-294.
- [72] Saeidi, P., Saeidi, SP, Gutierrez, L., Streimikiene, D., Alrasheedi, M., Saeidi, SP, & Mardani, A. (2021). The influence of enterprise risk management on firm performance with the moderating effect of intellectual capital dimensions. Economic Research- Ekonomska Istraživanja, 34 (1), 122-151.

- [73] Sarwono, Jonathan and Narimawati, Umi. (2015). Making Thesis, Dissertation and Dissertation Partial Least Square SEM (PLS SEM) method. Yogyakarta: Andi Publishers.
- [74] Sherehiy, B., & Karwowski, W. (2014). The relationship between work organization and workforce agility in small manufacturing enterprises. International Journal of Industrial Ergonomics, 44(3), 466-473.
- [75] Shin, H et al. (2015). Strategic agility of Korean small and medium enterprises and its influence on operational and firm performance. International Journal of Production Economics, 168, 181-196.
- [76] Shleifer, A., and R. Vishny R. . (1997). The limits of arbitrage. Journal of Finance, Vol. 52, no. 1.
- [77] Shleifer, A., and R. Vishny R. . (1997). The limits of arbitrage. Journal of Finance, Vol. 52, no. 1.
- [78] Skinner, D., & Spira, L. F. (2003). Trust and control—a symbiotic relationship?. Corporate Governance: The international journal of business in society, 3 (4), 28-35.
- [79] Sukati, I., et al. (2012). The Effect of Organizational Practices on Supply Chain Agility: An Empirical Investigation on Malaysian Manufacturing Industry. Procedia Social and Behavioral Sciences, 40, , 274-281.
- [80] Syamil , A., Subawa , S., Budaya , I., Munizu , M., Darmayanti , NL, Fahmi, MA, & Dulame , IM (2023). Management Chain Supply . PT. Sonpedia Publishing Indonesia.
- [81] Tasmin, R., Muazu, MH, Nor Aziati, AH, & Zohadi, NL (2020). The mediating effect of enterprise risk management implementation on operational excellence in the Malaysian oil and gas sector: a conceptual framework. Future Business Journal, 6 (1), 7.
- [82] Teixeira, AA, Moraes, TEDC, Stefanelli, NO, de Oliveira, JHC, Teixeira, TB, & de Souza Freitas, WR (2020). Green supply chain management in Latin America: Systematic literature review and future directions. Environmental Quality Management, 30 (2), 47-73.
- [83] Thian, A., (2021). Management Risk Business . Andi Publisher .
- [84] Tooranlo, H.S., Areezo, S.A., & Somayeh, A. (2018). Evaluating Knowledge management failure factors using intuitive Fuzzy FMEA Approach. Springer Journal, (10115), 23.
- [85] Uyar, A., Fernandes, V., & Kuzey, C. (2021). The mediating role of corporate governance between public governance and logistics performance: International evidence. Transport Policy, 109, 37-47.
- [86] Vanalle, R.M., Ganga, G.M.D., Godinho Filho, M., & Lucato, W.C. (2017). Green supply chain management: An investigation of pressures, practices, and performance within the Brazilian automotive supply chain. Journal of cleaner production, 151, 250-259.
- [87] Wang, H., and Hsu, F. (2009.). An integrated operation module for individual risk man. J. Opera. Res. 198(2) , 610-617.
- [88] Wang, Z., Liu, L., & Chen, C. (2004). Corporate governance, ownership and financial distress of publicly listed companies in China. Petroleum Science, 1 (1), 90-96.
- [89] Widajantie, TD, & Dewi, AP (2020). The Influence KAP Size, Audit Opinion, Audit Delay, Financial Distress, and Turnover Management Against Voluntary Auditor switching. Liability, 02(2), 19–52. https://journal.uwks.ac.id/index.php/liability
- [90] Wilson, S., & McCalman, J. (2017). Re-imagining ethical leadership as leadership for the greater good. European Management Journal, 35 (2), 151-154.
- [91] Wiyarni , & Binyamin. (2021). The Mediating Effect of Financial Distress on Audit Tenure and Auditor Switching Towards Audit Delay. Proceedings of 2nd Annual Management, Business and Economic Conference (AMBEC 2020), 183( Ambec 2020), 35–40. https://doi.org/10.2991/aebmr.k.210717.008 .
- [92] Wong, CY, Wong, CW, & Boon- itt, S. (2020). Effects of green supply chain integration and green innovation on environmental and cost performance. International Journal of Production Research, 58(15), 4589-4609.
- [93] Xue, B., Xu, F., Luo, X., & Warkentin, M. (2021). Ethical leadership and employee information security policy (ISP) violations: exploring dual-mediation paths. Organizational Cybersecurity Journal: Practice, Process and People, 1 (1), 5-23.
- [94] Yan, Z. (2021). Research on enterprise risk prevention and control countermeasures based on business model innovation—Taking Shandong as an example. In 2021 2nd International Conference on Education, Knowledge and Information Management (ICEKIM) (pp. 616-620). IEEE.
- [95] Young, S. and Thyil , V. (2009). Governance, employees and CSR: integration is the key to unlocking value. Asia Pacific Journal of Human Resources, Vol. 47 No. 2 , pp. 167-185.
- [96] Yusuf, YY, et al. (2014). A relational study of supply chain agility, competitiveness and business performance in the oil and gas industry. International Journal of Production Economics, 147, Part B, 531-543.
- [97] Zafiropoulos, L et al. (2005). Dynamic risk management. Inf. Manag. Comput. Secur. 13(3), 212-234.
- [98] Zou, Z., Farnoosh, A., & Mcnamara, T. (2021). Risk analysis in the management of a green supply chain. Strategic Change, 30 (1), 5-17.