Investment Risk Management Strategies in Sukuk: A Sharia Management Perspective

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DOI: https://doi.org/10.56457/jimk.v12i2.609
Received: September 9, 2024 | Accepted: November 15, 2024 | Published: December 09, 2024

ABSTRACT

Sukuk, as a Sharia-compliant financial instrument, has gained increasing popularity among global investors. However, as the market evolves, challenges related to risk management in compliance with Sharia principles have also emerged. This paper aims to explore investment risk management strategies in sukuk from a Sharia management perspective. Using qualitative analysis and literature review methods, the study highlights the importance of applying Sharia principles in identifying and managing risks, including market risk, liquidity risk, and default risk. Sharia-compliant risk mitigation strategies, such as portfolio diversification, sukuk performance monitoring, and the use of Sharia contracts like wakalah and mudharabah, are discussed in depth. Additionally, the paper emphasizes the role of Sharia supervisory authorities in ensuring that sukuk instruments remain compliant with Islamic law, providing added security for investors. The findings of this study offer valuable insights for investors, financial institutions, and policymakers in developing effective and Sharia-compliant risk management frameworks.

Keywords: Sukuk, risk management, Sharia

INTRODUCTION

Sukuk is a financial instrument known as Islamic bonds, designed to comply with the principles of Islamic finance. In Islamic finance, sukuk is used as a tool to raise capital from the capital markets while adhering to Shariah rules, which prohibit practices such as riba (interest), gharar (uncertainty), and maisir (speculation). This instrument offers an alternative for investors who wish to invest in financial products that align with Islamic teachings, without violating the core principles mandated by Shariah.

The development of sukuk as a global investment alternative has shown rapid growth in recent decades. This growth is driven by the increasing interest from investors seeking Shariah-compliant financial instruments, both from Muslim-majority and non-Muslim countries. Sukuk provides flexibility that appeals not only to investors who follow Shariah principles but also to those looking to diversify their investment portfolios with instruments considered more ethical and sustainable.

Despite the attractive investment opportunities sukuk offers, this instrument is not without risk. Like other financial instruments, sukuk carries risks such as market risk, liquidity risk, and default risk. However, what distinguishes sukuk is that risk management must be carried out in compliance with Shariah principles, which prohibit the use of riba, gharar, and maisir. This adds a unique challenge in managing risks, as conventional financial risk mitigation tools, such as derivatives, are often not permitted in Islamic finance.

Risk management in sukuk investment is crucial for stakeholders, including investors, sukuk issuers, and regulators. Risk management strategies must be based on strict Shariah principles while ensuring that investors are assured of the safety of their investments. This is vital for maintaining the stability of the sukuk market and enhancing investor confidence. Effective risk management will ensure that sukuk remains a sustainable and reliable investment instrument in the long term.

As a financial instrument based on Islamic principles, sukuk differs fundamentally from conventional bonds, particularly in relation to Islamic financial principles. One of the key differences is that sukuk do not contain any interest (riba), which is considered haram in Islamic teachings. Instead, the returns provided to sukuk holders are based on the ownership of tangible assets or real projects underlying the issuance of the sukuk. According to Soemitra (2021), Islamic finance emphasizes the importance of transactions that are grounded in real asset ownership, avoiding speculation or interest-based activities.

Moreover, there are various types of sukuk that offer different profit-sharing schemes depending on their asset structure. One example is sukuk al-Ijarah, which represents ownership of leased assets. The income derived from these leased assets is then distributed to sukuk holders as a return on investment. Yunus (2024) notes that this mechanism ensures a direct link between real assets and the returns received by investors, thereby aligning with Sharia principles.

However, the implementation of sukuk presents its own challenges in terms of risk management. Not all conventional risk management approaches can be applied to sukuk due to its asset-backed nature. Sarwar (2024) mention that risk management in sukuk requires more specific approaches that adhere to Sharia principles, particularly in ensuring a fairer distribution of risks among stakeholders.

The global sukuk market has grown significantly over the past few decades. According to a report published by the Islamic Financial Services Board (IFSB), global sukuk issuance reached $145 billion in 2020, marking a substantial increase compared to previous years (IFSB, 2020). This rise reflects the growing interest in Shariah-compliant financial instruments, especially among Muslim-majority countries and global financial institutions seeking alternative financing methods that align with Islamic principles. Additionally, sukuk has become a preferred instrument for funding large-scale infrastructure projects, social development initiatives, and other significant undertakings.

One of the key drivers of increased interest in sukuk is the stability it offers compared to conventional financial instruments, particularly bonds. In times of market volatility, sukuk is often considered a more stable option due to its asset-backed nature and adherence to Shariah principles, which avoid excessive speculation. As Sial (2022) highlighted, sukuk provides a unique advantage through its transparent structure and greater stability in facing market risks, especially during periods of global economic uncertainty.

However, this rapid growth has also introduced new challenges, particularly in terms of risk management. One of the main challenges faced by sukuk investors is the legal and regulatory uncertainty in different countries. Not all nations have clear regulatory frameworks governing the issuance and trading of sukuk, making it difficult for investors to assess and understand the risks involved. A report by Iqbal (2016) pointed out that the lack of regulatory harmonization among sukuk-issuing countries remains a key barrier to increasing the instrument's attractiveness to global investors.

Furthermore, global economic volatility, changes in monetary policies, and political instability also pose additional challenges to sukuk performance. External factors, such as global interest rate fluctuations and political uncertainties in issuing countries, can affect the value of sukuk in secondary markets. This is in line with findings by Ali and Hassan (2019), who stated that while sukuk provides relative stability, it is still not immune to external influences that can impact the broader financial markets.

Investing in sukuk, like other financial instruments, carries various risks. Sukuk, being compliant with Sharia principles, still requires careful management of these risks to ensure that the investment remains aligned with Islamic finance guidelines. One of the primary risks in sukuk investment is market risk, where fluctuations in market prices can impact the value of the sukuk and lead to potential losses. According to Iqbal (2016), unexpected market movements can affect both the liquidity and overall performance of sukuk.

In addition to market risk, credit risk is a significant factor in sukuk investments. This risk is related to the possibility of default by the sukuk issuer, where investors may not receive the promised payments. Issuers, particularly those from the private sector, may face financial difficulties that impact the timely payment of principal or profit-sharing. As noted by Alswaidan (2017), issuers with declining creditworthiness can pose heightened risks for sukuk investors.

Liquidity and operational risks are also critical to consider. Sukuk, especially those traded in secondary markets, may face liquidity risks if investors struggle to sell the sukuk quickly without incurring significant losses. Moreover, operational risks stemming from human error, processes, or technological failures can also impact the overall performance of sukuk. Gandhi (2022) emphasizes that ineffective management of operational risks can undermine investor confidence and negatively affect the expected returns on investment.

Market risk, a primary concern for sukuk investors, arises from fluctuations in global interest rates and macroeconomic conditions. While sukuk's asset-backed nature provides some stability, significant market shifts can still impact prices. A deeper exploration of mitigating tools, such as Sharia-compliant hedging, could enhance the discussion on market risk management. This risk is closely related to price fluctuations in the market, which can affect the value of the instrument. In the case of sukuk, market price changes are influenced by several economic factors such as interest rates, inflation, and other macroeconomic conditions. Although sukuk differs from conventional bonds because it does not pay interest, global market dynamics still have a significant impact on the price movement of sukuk. As noted by Moreira (2017), global market volatility often leads investors to adjust their portfolios to reduce exposure to market risk.

Fluctuations in global interest rates are a major factor affecting sukuk prices. While sukuk is considered a more stable instrument in the long term due to its asset-backed nature, changes in interest rates can still have a significant impact on its value. Investors frequently compare the returns on sukuk with conventional bonds. When global interest rates rise, conventional bonds become more attractive, which can result in a decline in sukuk prices in the secondary market. This aligns with the view of Fabozzi (2012), who emphasized that changes in global interest rates can lead to a major shift in investor preferences between Sharia-compliant instruments and conventional ones.

Moreover, inflation and overall macroeconomic conditions also influence the value of sukuk. When inflation rises, purchasing power decreases, which can dampen interest in these Sharia-compliant financial instruments. Even though sukuk does not offer interest payments, inflationary pressures can reduce its appeal to investors who seek instruments more resistant to rising prices of goods and services. According to Naifar (2016), in times of economic turbulence, investors tend to be more cautious in selecting financial instruments, and sukuk is often affected by external factors such as inflation and global economic volatility.

Also, Credit risk refers to the risk that the issuer of a sukuk may be unable to meet its obligations to pay the promised returns to investors. This risk is particularly significant in the context of sukuk because it is tied to underlying physical assets. Sukuk structures, unlike conventional bonds, are asset-backed, meaning the returns and payments to investors are directly linked to the performance of these underlying assets. If the project or asset fails to generate the expected revenue, the sukuk issuer may struggle to fulfill its payment obligations to sukuk holders (AlOudah, 2019).

In the case of sukuk, credit risk is more complex compared to traditional financial instruments. The involvement of physical assets introduces additional layers of risk, including the operational and market risks associated with those assets. For instance, if the underlying project suffers from delays, cost overruns, or operational inefficiencies, the revenue generated may not be sufficient to cover the payments due to investors. This amplifies the credit risk and may lead to default or restructuring of the sukuk (Zaheer et al., 2024).

Furthermore, the legal framework governing sukuk can also influence credit risk. In some jurisdictions, the enforceability of claims on underlying assets may not be as robust as in others, adding another dimension to the risk. As Mahamud (2019) points out, the legal clarity surrounding sukuk structures is crucial in ensuring that investors have proper recourse in the event of non-payment. Without clear legal protections, investors may face significant losses if the issuer defaults on its obligations

Liquidity Risk is a crucial issue in the sukuk market. Sukuk are often not traded as actively as conventional bonds, resulting in lower liquidity. Investors may face difficulties selling sukuk in the secondary market, especially during periods of market instability. The limited trading activity in the sukuk market has been highlighted by Diamond (2016), who noted that this lower liquidity increases the challenge for investors seeking to liquidate their positions quickly.

Moreover, the reduced liquidity in sukuk can lead to wider bid-ask spreads, meaning there is often a significant difference between the buying and selling prices. This spread is a direct reflection of the liquidity premium required by market participants (Conrad et al., 2020). This disparity can impact the returns received by investors, as they may need to accept lower prices when trying to sell their holdings.

In addition, the liquidity risk in sukuk markets is often exacerbated by periods of financial stress or uncertainty. According to Ariff (2018), during market turbulence, the demand for sukuk can fall drastically, leaving investors with limited options for selling their assets without accepting a discount. This makes liquidity risk a persistent concern for those involved in sukuk investments, particularly in volatile market conditions.

Operational risk in the context of sukuk issuance and management refers to the potential for operational failures, including administrative errors, technological weaknesses, and human factors. These risks can arise at various stages of sukuk management, from issuance to the ongoing administration of the instruments. For instance, errors in financial reporting or mistakes in the distribution of returns to sukuk holders are common examples of operational risks (Iqbal et al., 2016). Such risks, if not properly managed, can lead to reputational damage and financial losses.

Moreover, operational risks are not limited to administrative issues but also extend to the management of underlying assets in sukuk structures. For instance, asset deterioration or a decline in asset value can pose significant challenges for sukuk issuers and managers. According to Al- Alswaidan (2017), these risks can affect the performance and returns of sukuk, especially in asset-based or asset-backed sukuk structures where the value of the underlying asset is critical to the instrument's success.

Lastly, the complexity of modern financial systems, including the use of advanced technology in managing sukuk, introduces additional layers of operational risk. Failures in technology systems, such as those used for processing transactions or safeguarding data, can lead to disruptions in the issuance or management process (Reddy et al., 2021). In this regard, it is crucial for sukuk managers to invest in robust systems and ensure effective human oversight to mitigate these operational risks.

The management of risk in sukuk requires a distinct approach compared to conventional bonds due to the incorporation of Shariah principles. Sukuk, being structured to comply with Islamic law, prohibits interest (riba) and speculative transactions (gharar), making risk management more complex. Consequently, it calls for alternative strategies that align with Islamic finance principles. Sukuk must be structured in a way that upholds asset-backed or asset-based financing, which fundamentally differentiates them from interest-bearing bonds (Ahmed et al., 2022).

One of the key strategies in managing sukuk risks is portfolio diversification. Diversification allows investors to spread out their investments across different sectors and regions, mitigating potential risks related to market volatility or economic downturns. This approach helps reduce the concentration of risk in one area, ensuring a more balanced risk profile. Diversification in sukuk portfolios is essential to minimize exposure to sector-specific risks and enhance overall financial stability (Balcılar et al., 2015).

Additionally, rigorous Shariah supervision and the use of Islamic hedging instruments are integral to managing risks in sukuk. The oversight from a Shariah board ensures that all financial activities adhere to Islamic principles, safeguarding the integrity of the sukuk. Furthermore, Islamic hedging instruments, such as profit rate swaps and currency swaps compliant with Shariah, can be employed to mitigate financial risks. The development of these instruments has allowed Islamic financial institutions to better manage risks while adhering to the prohibitions against conventional derivatives (Al Rahahleh et al., 2019).

Portfolio Diversification: Diversification is one of the most commonly used risk management strategies in investments, including sukuk. By diversifying a sukuk portfolio, investors can mitigate the risks associated with specific assets or projects. This strategy is particularly important in Islamic finance, as it helps distribute potential losses across various investments. As Koumou (2020) points out in his Modern Portfolio Theory, diversification reduces risk by combining assets that are not perfectly correlated, thus minimizing the impact of any single asset's poor performance.

In the context of sukuk, diversification can be achieved by investing in different types of sukuk, such as Sukuk al-Ijarah, Sukuk al-Musharakah, and Sukuk al-Murabahah. Each of these has a distinct risk profile, allowing investors to balance exposure to various economic factors. For instance, Sukuk al-Ijarah is asset-backed, which makes it relatively low risk, while Sukuk al-Musharakah involves profit-sharing and carries higher variability in returns (Duku et al., 2023).

By diversifying across these various types of sukuk, investors can protect their portfolios from sector-specific risks and market fluctuations. According to Fabozzi (2011), diversification in fixed-income securities like sukuk not only enhances portfolio stability but also improves long-term returns by reducing exposure to any one particular risk factor. Thus, it remains a key principle in Islamic finance investment strategies.

Strict Shariah Supervision: In the management of sukuk, it is crucial to ensure that these instruments remain compliant with Shariah principles. This is achieved through the oversight of the Shariah Supervisory Board (SSB), which is responsible for guaranteeing that all aspects of sukuk issuance and management adhere to Islamic law. The SSB's supervision involves a thorough review of sukuk structures, the use of funds, and revenue streams. This level of scrutiny provides investors with confidence that their investments align with Islamic values.

The role of the Shariah Supervisory Board is particularly significant because sukuk, unlike conventional bonds, must avoid any elements of *riba* (interest), *gharar* (excessive uncertainty), and *maysir* (gambling). The board ensures compliance with these prohibitions, which differentiates sukuk from non-Islamic financial instruments. As noted by Ullah (2018), "The Shariah Supervisory Board serves as a guardian of Islamic financial principles, ensuring that modern financial instruments do not deviate from the core ethical values of Islam."

By maintaining strict Shariah supervision, sukuk offer a sense of ethical security for

Muslim investors. According to Riaz (2022), the thorough vetting process by the SSB "builds trust and ensures that Islamic finance products are more than just a financial alternative; they are an embodiment of faith-based values." This rigorous oversight reassures investors that their capital is being used in a way that is both financially sound and religiously compliant.

Islamic Hedging Instruments: To safeguard investments from unexpected market fluctuations, some sukuk investors use Islamic hedging instruments such as wa'ad contracts and tahawwut contracts. These instruments allow investors to mitigate market risk without violating Sharia principles. For instance, wa'ad contracts are often employed to hedge currency exchange risks in international transactions, while tahawwut contracts are used to protect against asset price fluctuations.

Wa'ad, which refers to a unilateral promise, is an essential tool in Islamic finance for managing future uncertainties in a Sharia-compliant manner. It is often utilized in currency swaps, allowing investors to hedge their exposure to foreign currency risks. According to Ali (2017), wa'ad contracts are structured to ensure that they remain binding only on one party, maintaining compliance with Sharia's prohibition on bilateral uncertainty (gharar). This makes wa'ad a crucial element for mitigating exchange rate risk without compromising ethical considerations.

Similarly, tahawwut, which translates to risk management, plays a significant role in shielding investments from market volatility. It functions by enabling counterparties to enter into risk mitigation agreements that adhere to Islamic guidelines. Hassan and Kayed (2020) highlight that tahawwut contracts are designed to minimize speculation and are structured to align with the principles of justice and fairness, thereby preventing excessive uncertainty while managing price fluctuations in a compliant manner.

To provide an overview of the global development of sukuk, the following table presents the growth of sukuk issuance values from 2010 to 2020.

Table 1. Global Sukuk Growth Chart

Year	Sukuk Issuance Value (Billion USD)
2010	47
2011	60
2012	81
2013	90
2014	105
2015	118
2016	126
2017	130
2018	136
2019	140
2020	145

Source: Islamic Financial Services Board (IFSB, 2020)

The table above illustrates the upward trend in global sukuk issuance over the past decade. This growth reflects the increasing interest in sukuk as a Sharia-compliant alternative investment. However, as the volume of sukuk issuance rises, the complexity of risk management challenges also intensifies. Therefore, it is crucial for stakeholders to continue strengthening risk management mechanisms in sukuk to maintain market stability and protect investors' interests.

Investing in sukuk offers attractive opportunities for investors seeking financial instruments that adhere to Sharia principles. However, these investments are also exposed to various risks, such as market risk, credit risk, liquidity risk, and operational risk. Thus, effective risk management is essential to preserve the stability of these investments and ensure that sukuk remains a reliable instrument for investors. Strategies such as portfolio diversification, strict Sharia

Kontigensi: Jurnal Ilmiah Manajemen
Vol. 12, No. 2, December 2024, pp. 598-608
ISSN 2088-4877

supervision, and the use of Islamic hedging instruments can help mitigate risks and enhance investor confidence in the sukuk market.

METHOD

The method used in this study focuses on a qualitative approach with literature analysis as its primary foundation. This research involves a review of relevant literature and secondary data, where various sources from journals, books, and published articles are used to provide a comprehensive overview of risk management strategies in Sukuk investments from a Shariah perspective. The data collection process was conducted by identifying and evaluating various previous studies that discuss the concept and practice of Sukuk, as well as risk management in accordance with Shariah principles.

The researcher employed a descriptive-analytical approach to understand the dynamics and challenges faced in Sukuk risk management. This method allows for a deeper exploration of the risk management mechanisms implemented, particularly in maintaining a balance between financial stability and adherence to Shariah principles. The literature analyzed covers aspects such as liquidity risk, market risk, credit risk, and operational risk within the context of Sukuk. Furthermore, this review also considers external factors that may influence the performance of Sukuk, such as global economic fluctuations and Islamic banking policies in various countries.

This qualitative approach also involves interpreting the data obtained from previous literature by considering the Shariah perspective. This is done by linking relevant findings to the fundamental principles of Islamic economics, such as the prohibition of riba (interest), gharar (uncertainty), and maysir (speculation). In the analysis process, the researcher emphasizes how these principles influence the risk management strategies applied in Sukuk investments and how Shariah-compliant approaches can reduce or mitigate investment risks.

Through this method, the study aims to develop a comprehensive understanding of risk management practices that not only address the technical aspects of finance but also consider the moral and ethical dimensions governed by Shariah law. Consequently, this study contributes to the development of a more integrated risk management framework in Sukuk investments, aligning with Shariah requirements and the dynamics of modern financial markets (Pugu et al., 2024). The primary sources used in this research include various scholarly works that specifically address risk management in the context of Sukuk and Islamic finance, including contributions from Wilson (2008), Usmani (2002), and additional literature reviews from relevant Islamic finance journals.

RESULTS and DISCUSSION

1. Market Risk in Sukuk Investment

One of the most significant findings of this research is the identification of **market risk** as a key concern for sukuk investors. Even though sukuk instruments do not generate interest, global market conditions, particularly fluctuations in interest rates, still indirectly influence sukuk prices. This influence arises because investors compare the yields of sukuk with conventional bonds. For example, when global interest rates rise, investors might shift their preferences toward traditional bonds, which may lead to a decline in sukuk prices, thereby increasing the market risk associated with sukuk.

Table 2: Fluctuations in Sukuk Prices vs Global Interest Rates

Year	Global Interest Rate (%)	Sukuk Yield (%)	Change in Sukuk Price (%)
2017	1.25	4	2
2018	1.75	3.8	-1.5
2019	2.5	3.6	-3
2020	0.5	3.9	1.5

Data Source: Market Analysis Reports (2020)

The table highlights how sukuk prices fluctuate in response to changes in global interest rates. During periods of rising interest rates (2018–2019), sukuk prices showed a downward trend as investors preferred conventional bonds with higher yields.

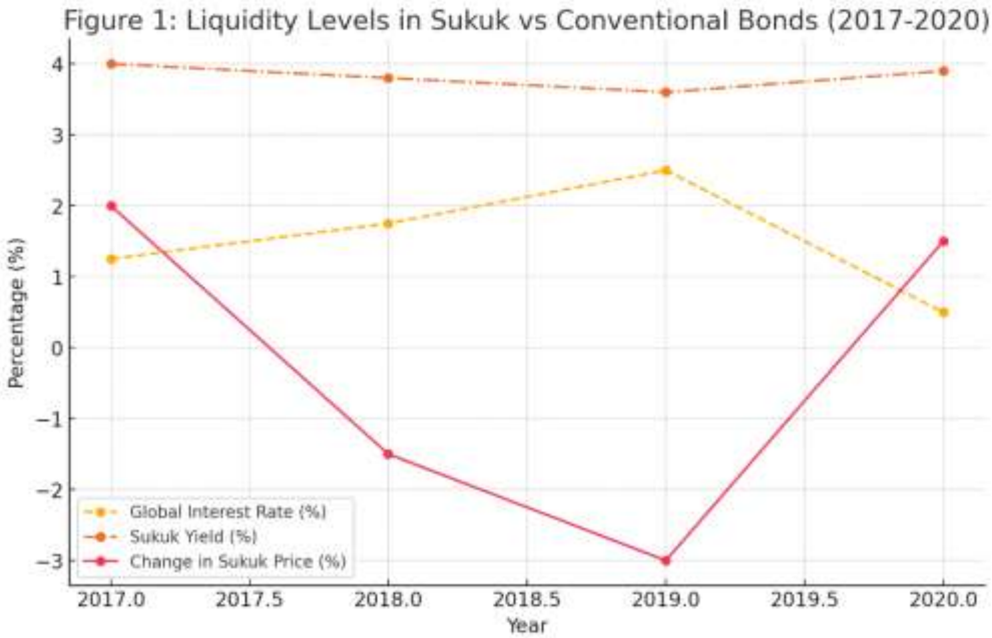
2. Credit Risk in Sukuk

Credit risk, identified as another critical finding, is more complicated in sukuk compared to conventional bonds. Since sukuk is backed by tangible assets or projects, the failure of these assets to generate the expected income can result in non-payment of obligations to investors. This situation presents a significant risk, especially in project-based sukuk, such as Sukuk al-Ijarah and Sukuk al-Mudharabah, where the performance of the underlying asset directly impacts returns.

3. Liquidity Risk in Sukuk

The research findings also emphasize **liquidity risk** as a significant challenge in sukuk investments. Sukuk, unlike conventional bonds, are not as actively traded in the secondary market, making it difficult for investors to sell their holdings when necessary. The relatively lower liquidity of sukuk instruments increases the bid-ask spread, leading to higher transaction costs and reduced investor returns.

Figure 1: Liquidity Levels in Sukuk vs Conventional Bonds



This chart compares liquidity levels between sukuk and conventional bonds, showing that sukuk generally exhibit lower liquidity, particularly in times of market stress. The wider bid-ask spreads for sukuk make it more challenging for investors to exit their positions quickly, thereby enhancing the liquidity risk.

4. Operational Risk in Sukuk

Operational risks, such as administrative errors, technology failures, or poor asset management, were also found to be prevalent in sukuk investments. These risks are particularly important because they can affect the overall management of the sukuk issuance, leading to delayed or incorrect payments to investors.

5. Risk Mitigation Strategies

a. Diversification of Sukuk Portfolios

The study found that **portfolio diversification** is an effective way to manage risks in sukuk investment. By spreading investments across different types of sukuk, such as Sukuk al-Ijarah (lease-based) and Sukuk al-Mudharabah (profit-sharing), investors can reduce exposure to any single risk factor. Diversification reduces the impact of specific asset failures or market conditions on the overall portfolio performance.

Table 2: Risk-Return Profile of Diversified Sukuk Portfolios (2015-2020)

Sukuk Type	Average Return (%)	Risk (Standard Deviation)
Sukuk al-Ijarah	4.2	1.8
Sukuk al-Musharakah	5	2.1
Sukuk al-Murabahah	3.8	1.5
Diversified Portfolio	4.4	1.6

Source: Sukuk Performance Reports (2020)

This table demonstrates how a diversified sukuk portfolio can offer more stable returns with reduced risk, compared to individual sukuk types. The diversified portfolio has a relatively lower standard deviation, indicating reduced volatility and a better risk-return balance.

b. Sharia-Compliant Hedging Instruments

The use of Sharia-compliant hedging instruments, such as wa'ad (promise contracts) and tahawwut (hedging contracts), was highlighted as a key strategy to protect sukuk investments from unforeseen market fluctuations. These instruments help manage foreign exchange risks, which are particularly relevant in cross-border sukuk issuances. For example, wa'ad contracts allow investors to hedge against currency fluctuations without engaging in speculative activities, which are prohibited under Sharia law.

c. Strict Sharia Supervision

The presence of Sharia Supervisory Boards plays an essential role in sukuk risk management. These boards ensure that all sukuk structures, from asset management to income distribution, comply with Islamic law. Sharia supervision adds an additional layer of security, protecting investors from potential risks related to non-compliance with religious principles.

6. Role of Sharia Supervisory Authorities

An important result from the study was the critical role played by Sharia supervisory authorities. These bodies are responsible for reviewing sukuk structures, asset utilization, and income flows to ensure compliance with Islamic principles. The supervisory role mitigates risks, such as the mismanagement of funds, and assures investors that their investments remain ethically aligned with Sharia law. This aspect of sukuk investment provides an added level of security for those seeking both financial returns and religious adherence.

7. Challenges in Risk Management

Despite the effectiveness of the above strategies, the research highlights that managing risks in sukuk investments remains challenging due to several factors:

a. **Regulatory Disparities**: Different countries have varying frameworks for sukuk issuance, creating legal uncertainties for investors operating across multiple jurisdictions. This variability in regulations can complicate the understanding and management of risks associated with sukuk.
b. **Economic Volatility**: Global economic conditions, particularly in sectors like energy, where many sukuk issuances are concentrated, can introduce additional volatility into sukuk performance.
c. **Secondary Market Constraints**: Liquidity constraints in the secondary sukuk market can make it difficult for investors to buy or sell sukuk quickly, especially during times of market stress.

CONCLUSION

The research highlights that sukuk, as a Sharia-compliant investment, presents a viable alternative to conventional bonds for investors seeking ethical financial instruments. However, it also reveals that sukuk is exposed to several types of risks, such as market fluctuations, credit defaults, liquidity challenges, and operational inefficiencies. These risks can have a direct impact on the performance and returns of sukuk, making risk management a critical component of sukuk investment.

To address these risks, the study identifies several effective strategies. Portfolio diversification is crucial, as it spreads the risk across different sukuk types, reducing the impact of poor performance from a single asset. Additionally, Sharia-compliant hedging instruments, such as wa'ad and tahawwut contracts, offer protection against unforeseen market movements, especially in cross-border sukuk transactions. Moreover, strict Sharia supervision ensures that the sukuk structure remains compliant with Islamic law, adding an extra layer of security for investors.

Despite the availability of these risk management strategies, the research also uncovers several challenges. One of the primary issues is regulatory disparities, as sukuk issuance frameworks vary across different countries. This lack of uniformity makes it difficult for investors to navigate legal requirements and fully assess the associated risks. Furthermore, sukuk instruments often face liquidity constraints in the secondary market, making it harder for investors to quickly buy or sell their holdings, particularly in times of economic uncertainty.

In conclusion, while sukuk offers considerable potential for Sharia-compliant investment, its associated risks demand careful management. Investors must adopt comprehensive risk mitigation strategies, including diversification and the use of hedging instruments, while also accounting for regulatory and liquidity challenges. Maintaining a strong understanding of both market dynamics and Sharia principles is essential for safeguarding sukuk investments and ensuring their long-term viability.

REFERENCES

Ahmed, E. R., Islam, M. A., Ariffin, K. H. K., & Amran, A. (2022). *The Challenges and Prospects of Sukuk: A Content Analysis-based Study*.

Al Rahahleh, N., Ishaq Bhatti, M., & Najuna Misman, F. (2019). Developments in risk management in Islamic finance: A review. *Journal of Risk and Financial Management*, *12*(1), 37.

AlOudah, O. (2019). *Protecting the Rights and Interests of Sukuk Holders from the Risks of Default/Counterparty, Bankruptcy and Shari'ah Reality, Development and Challenges (Special Attention to Saudi Arabia)*.

Alswaidan, M. W. (2017). *An investigation of Sukuk structure risk*. University of Portsmouth.

Ariff, M. (2018). A new form of global asset-backed debt market through sukuk. In *Islamic Social Finance* (pp. 95–110). Routledge.

Balcılar, M., Demirer, R., & Hammoudeh, S. (2015). Global risk exposures and industry diversification with Shariah-compliant equity sectors. *Pacific-Basin Finance Journal*, *35*, 499–520.

Conrad, J., & Wahal, S. (2020). The term structure of liquidity provision. *Journal of Financial Economics*, *136*(1), 239–259.

Diamond, D. W., & Kashyap, A. K. (2016). Liquidity requirements, liquidity choice, and financial stability. In *Handbook of macroeconomics* (Vol. 2, pp. 2263–2303). Elsevier.

Duku, M., & Tsanyawa, M. S. (2023). Green Sukuk: As an Alternative Mechanism for Financing Infrastructural Development in Nigerian Power Sector. *International Journal of Social Science, Technology and Economics Management*, *1*(1).

Gandhi, H. H., Hoex, B., & Hallam, B. J. (2022). Strategic investment risks threatening India's renewable energy ambition. *Energy Strategy Reviews*, *43*, 100921.

Iqbal, M., & Siddique, M. Z. (2016). Theory of Islamic banking: From genesis to degeneration. *History of Economic Ideas: XXIV, 2, 2016*, 75–110.

Koumou, G. B. (2020). Diversification and portfolio theory: a review. *Financial Markets and Portfolio Management*, *34*(3), 267–312.

Mahamud, A. O. (2019). *Sukuk As A Tool Towards Development: How Kenya Can Use Sukuk As Alternative Source Of Funding Development Projects*. University of Nairobi.

Moreira, A., & Muir, T. (2017). Volatility-managed portfolios. *The Journal of Finance*, *72*(4), 1611–1644.

Naifar, N. (2016). Do global risk factors and macroeconomic conditions affect global Islamic index dynamics? A quantile regression approach. *The Quarterly Review of Economics and Finance*, *61*, 29–39.

Pugu, M. R., Riyanto, S., & Haryadi, R. N. (2024). *Metodologi Penelitian; Konsep, Strategi, dan Aplikasi*. PT. Sonpedia Publishing Indonesia.

Reddy, V. M., & others. (2021). Blockchain Technology in E-commerce: A New Paradigm for Data Integrity and Security. *Revista Espanola de Documentacion Cientifica*, *15*(4), 88–107.

Riaz, M. (2022). *Role-related Tensions in The Lived Experiences of Managers with a Marketing Function (MMFs) in Islamic Banks in the UK: An Interpretative Phenomenological Analysis*.

Sarwar, M., & others. (2024). Financial Risk Management: It's Implications and Compliance with Shari�ah Standards. *Al-Marj{\=a}n*, *2*(3), 1–17.

Sial, M. S., Cherian, J., Meero, A., Salman, A., Abdul Rahman, A. A., Samad, S., & Negrut, C. V. (2022). Determining financial uncertainty through the dynamics of Sukuk bonds and prices in emerging market indices. *Risks*, *10*(3), 61.

Soemitra, A. (2021). The relevance of Islamic economics and finance fundamentals to the contemporary economy: Islamic economist perceptions. *Share: Jurnal Ekonomi Dan Keuangan Islam*, *10*(2), 325–352.

Ullah, S., Harwood, I. A., & Jamali, D. (2018). "Fatwa repositioning": the hidden struggle for Shari'a compliance within Islamic financial institutions. *Journal of Business Ethics*, *149*, 895–917.

Yunus, K., Setyanoor, E., & Mansyur, A. (2024). Sustainbility in Sharia Invesment. *Jurnal Ilmu Ekonomi Dan Bisnis Islam*, *6*(1), 37–53.

Zaheer, S., & van Wijnbergen, S. (2024). Sukuk defaults: On distress resolution in Islamic finance. *Qualitative Research in Financial Markets*.