

International Journal of Advanced Business Studies

Volume 4. Issue 3. (2025) ISSN: 2940-2735



Full length article

Advancing ESG in African Insurance markets: Barriers, Policy Alignment, and Future Trajectories

Agripah Marangwanda

Department of Business Studies, University of Zambia, Zambia

Corresponding E-Mail: agripah.marangwanda@gmail.com

ORCID: https://orcid.org/0009-0004-0739-4986

Article Info ABSTRACT

Received: 05.03.2025 Accepted: 14.05.2025

Available online: 30.06.2025

Keywords:

Sustainable Insurance, ESG Integration, Underwriting, Investments, Corporate Governance, African Insurance Sector, Sustainable Finance, Regulatory Frameworks

DOI:

https://doi.org/10.59857/ajtyhn18

This study examines the integration of environmental, social, and governance (ESG) criteria into the underwriting, investment, and operational strategies of African insurers. As the global insurance industry increasingly aligns with sustainable finance principles, African insurers navigate unique challenges and opportunities in embedding ESG considerations. This research analyses the current state of ESG adoption in the African insurance sector, identifying key drivers, barriers, and strategic pathways. By reviewing global best practices, regulatory frameworks, and African case studies, the study explores how insurers can enhance risk assessment, investment strategies, and governance to meet sustainability objectives. Findings highlight the role of regulatory incentives, stakeholder engagement, and capacity building in accelerating ESG integration. The study concludes with actionable recommendations for insurers, regulators, and policymakers to foster sustainable insurance practices across Africa.

1. Introduction

The insurance sector plays a pivotal role in fostering economic stability, facilitating risk management, and supporting long-term investment strategies. Traditionally, insurers have focused on financial and actuarial considerations in underwriting and investment decisions. However, the global financial landscape is undergoing a significant transformation with the increasing emphasis on environmental, social, and governance (ESG) principles (Louisot 2024). ESG integration in the insurance industry reflects a broader shift toward sustainable finance, where insurers are not only risk carriers but also key players in driving responsible investment and risk mitigation strategies (Clayton, Devaney, Sayce, & van de Wetering, 2021).

The adoption of ESG principles in the African insurance sector is particularly critical, given the continent's unique socio-economic and environmental challenges. Africa is highly vulnerable to climate-related risks, such as extreme weather events, droughts, and rising sea levels, which have far-reaching implications for insurers' risk exposure and claims liabilities (Ongyerth,2023). Implementation of Social Sustainability Regarding Youth at the European Championships Munich 2022. Additionally, social factors, including income inequality, limited access to financial services, and regulatory capacity constraints, shape the insurance landscape in ways that

necessitate a tailored approach to ESG integration (Canton, 2021). Governance issues, such as regulatory fragmentation, inconsistent enforcement of sustainability standards, and corporate transparency concerns, further complicate ESG implementation within the sector (Surminski, Barnes, & Vincent 2022).

Despite these challenges, ESG integration presents significant opportunities for African insurers. By incorporating ESG factors into their underwriting and investment strategies, insurers can improve long-term risk assessment, enhance financial resilience, and contribute to broader sustainable development goals (SDGs) (Owusu-Peprah, 2024). The emergence of global best practices, such as climate risk disclosure frameworks, responsible investment guidelines, and sustainability-linked insurance products, provides a roadmap for African insurers seeking to align with ESG standards while maintaining financial viability (Welsby, Price, Pye, & Ekins, 2021). Moreover, regulatory initiatives, such as the development of green finance taxonomies and the introduction of sustainability reporting requirements, indicate a growing recognition of ESG's role in the insurance sector (de Zwart, & de Zwart, 2022).

This study examines the evolving landscape of sustainable insurance in Africa, analyzing the extent to which insurers have integrated ESG considerations into their business models. It identifies the key drivers and barriers to ESG adoption and explores the role of regulatory frameworks, stakeholder engagement, and capacity-building initiatives in facilitating sustainable insurance practices. By drawing on global best practices and African case studies, this research provides actionable insights for insurers, regulators, and policymakers seeking to advance ESG integration in the African insurance industry.

2. Literature Review

2.1 Global ESG Trends in Insurance

The adoption of ESG frameworks in the global insurance industry has been shaped by international initiatives such as the UN Principles for Sustainable Insurance (PSI) (FI, U. 2012)., the Task Force on Climate-related Financial Disclosures (TCFD) (Carney,2017). and the Sustainable Development Goals (SDGs) (Connor,2015). These frameworks serve as guiding principles for insurers seeking to embed sustainability into their underwriting, investment, and corporate governance practices. Empirical studies suggest that ESG integration enhances risk assessment, fosters long-term investment strategies, and improves corporate governance (Pugnetti, et al 2022; Dawson, Dargusch, & Hill, 2022). Additionally, regulatory bodies such as the European Insurance and Occupational Pensions Authority (EIOPA) have issued guidelines to strengthen ESG disclosures and reporting requirements within the insurance sector (Böffel, & Schürger, 2022).

Despite these advancements, significant challenges remain. The lack of standardized ESG metrics and the inconsistency of regulatory approaches across jurisdictions present considerable hurdles for insurers (Filipiak, 2024). While some global insurers have embraced ESG-linked financial products, concerns persist regarding greenwashing and the true material impact of these initiatives (Kuchtyak , & Bruce, 2022). Furthermore, insurers operating in emerging markets often struggle with the costs associated with ESG compliance, which can disproportionately affect their financial sustainability (Stefán, 2023). Addressing these disparities requires a harmonized regulatory approach and increased transparency in ESG reporting (Rahman, 2023).

2.2 ESG Adoption in African Insurance Markets

Research indicates that ESG adoption in Africa remains uneven due to varying regulatory frameworks, market maturity, and capacity constraints (Erin, & Bamigboye, 2022). South Africa leads in ESG implementation, driven by its Prudential Authority's sustainable finance guidelines (Thokoa, Naidoo, & Herbst, 2021). the Johannesburg Stock Exchange's ESG reporting requirements (Lawrence, Moodley, & Ferreira-Schenk, 2024). and the widespread adoption of the King IV Corporate Governance Code (Van Zyl, & Mans-Kemp, 2020). These policies have encouraged South African insurers to incorporate sustainability considerations into their business models. In contrast, ESG adoption in many other African markets lags due to limited regulatory enforcement and a lack of financial incentives for insurers to implement ESG practices (African Development Bank, 2022). For example, while Nigeria's insurance sector is governed by the National Insurance Commission (NAICOM), which has introduced sustainability principles, many insurers struggle to comply due to weak ESG infrastructure and inadequate data analytics capabilities (Gebreysus, 2024). Similarly, Kenya's Green Finance Strategy (Kandie, Macheru, & Osoro, 2023). has promoted ESG awareness, yet insurers often face challenges in translating these principles into actionable strategies (NGELE, 2023).

Another critical barrier is the limited capacity of African insurers to assess climate-related risks accurately. Many insurers lack the necessary actuarial expertise, catastrophe modelling tools, and ESG-aligned investment frameworks, which hinders their ability to integrate ESG into underwriting and investment decisions (Ratings, 2023). The absence of ESG-specific regulatory mandates in several African jurisdictions further exacerbates these challenges, highlighting the need for cross-border regulatory collaboration and capacity-building initiatives (World Health Organization, UNEP United Nations Environment Programme, & World Organisation for Animal Health 2022).

2.3 ESG and Investment Strategies in African Insurance

Sustainable investment is gaining traction in African insurance markets, with firms increasingly exploring green bonds, impact investing, and ESG screening to align their portfolios with sustainability objectives (Malpass,2022). Green bonds have emerged as a viable instrument, facilitating the financing of renewable energy and climate-resilient infrastructure projects (Nayak, Taher, & Maria, 2024). Impact investing is another avenue being pursued, allowing insurers to support businesses that generate positive social and environmental outcomes while ensuring financial returns.ESG screening, which involves filtering investments based on sustainability criteria, is being progressively integrated into African insurers' asset management strategies (FSD Africa, 2022).

Despite these advancements, many African insurers continue to allocate significant portions of their portfolios to carbon-intensive industries due to economic dependencies and short-term profitability concerns. Sectors such as fossil fuels, mining, and heavy manufacturing remain dominant in many African economies, making complete divestment from high-emission industries a complex challenge (Black, Liu, Parry, & Vernon, 2023). Unlike their global counterparts, African insurers often lack clear ESG mandates or incentives to accelerate sustainable investment transitions (Ahn, 2024). Additionally, limited access to ESG-compliant financial instruments, weak regulatory oversight, and a lack of robust sustainability reporting frameworks hinder further progress (von Carlowitz, 2024).

From a regulatory perspective, African governments and financial authorities are taking steps to encourage ESGaligned investments. Countries such as South Africa and Nigeria have introduced green finance policies aimed at integrating ESG principles into capital markets (Winkler, Keen, & Marquard, 2021).). However, regulatory enforcement remains inconsistent, and many insurers struggle with compliance due to fragmented ESG disclosure requirements and insufficient guidance from regulatory bodies.

Ultimately, the success of ESG-aligned investment strategies in Africa hinges on enhanced policy coordination, the development of sustainable financial products, and capacity-building initiatives that empower insurers to integrate ESG considerations into their decision-making processes (Lammi, 2024).

2.4 Insurance Industry-Specific ESG Challenges in Africa.

The implementation of ESG principles in African insurance markets is fraught with sector-specific challenges, particularly in industries such as coal-powered energy, oil and gas, and tobacco. These industries play a critical role in the economic development of many African nations but face increasing scrutiny from ESG-driven investment and underwriting policies (Andre, 2025).

Coal-powered energy, for instance, remains a key component of the energy mix in several African countries, particularly South Africa, which relies heavily on coal for electricity generation (Dechamps, 2023). Global insurers are increasingly withdrawing coverage from coal-related projects due to mounting pressure from investors and regulatory bodies to align with climate transition goals (Hadziosmanovic, Rahimi, & Bhatia, 2022). However, in Africa, the absence of alternative energy sources and economic reliance on coal industries complicate the transition toward clean energy (African Union Commission 2023). Insurers that exit these markets too rapidly may leave significant coverage gaps, exposing economies to financial vulnerabilities.

Similarly, the oil and gas sector face sustainability-related challenges. Many African economies, including Nigeria, Angola, and Algeria, depend on hydrocarbon revenues to sustain government budgets and economic development (Black, Liu, Parry, & Vernon, 2023). While global ESG initiatives advocate for reducing fossil fuel dependence, the immediate economic repercussions of divesting from oil and gas can be severe (Mainhardt, 2023) Insurers must therefore navigate the delicate balance between supporting national economic interests and aligning with global ESG commitments (Wang, Sami, Khan, Alamri, & Zaidan, 2023).

The tobacco industry is another sector that faces stringent ESG restrictions due to its adverse public health implications (Martins-da-Silva, at, al 2022). Insurers operating in African markets that heavily depend on tobacco production and exports must contend with increasing ESG-related pressure to withdraw financial support from this sector (Gernego, Petrenko, Lavrynenko, & Dyba, 2024). However, for economies that rely on tobacco farming as a major source of employment, sudden ESG-driven divestments could result in significant socio-economic consequences (Pinheiro, 2023). As a result, insurers must adopt phased strategies that promote sustainable alternatives while ensuring financial stability.

Ultimately, industry-specific ESG challenges in Africa require a nuanced approach that balances sustainability imperatives with economic realities. Regulatory frameworks should focus on providing transition roadmaps for industries at risk of ESG-driven divestment, ensuring that insurance markets remain resilient while promoting long-term sustainability objectives.

2.4.1 Practical Actions for African Insurers to Address ESG Challenges

Given these challenges, African insurers must adopt proactive measures to integrate ESG principles without compromising economic stability. Some practical actions include:

2.4.1.1 Developing Transition Strategies for High-Risk Sectors

Instead of immediate divestment from coal, oil, and tobacco industries, insurers can create transition roadmaps that gradually reduce reliance on these sectors while supporting the development of alternative industries. This includes financing clean energy projects, promoting green bonds, and working with governments to create sustainable economic policies (World Bank, 2023).

2.4.1.2 Engaging in ESG-Linked Partnerships

African insurers can collaborate with development finance institutions, global reinsurers, and impact investors to co-develop insurance solutions that balance economic imperatives with sustainability goals. For instance, public-private partnerships can provide financial backing for renewable energy projects while mitigating investment risks (African Development Bank, 2023).

2.4.1.3 Enhancing ESG Risk Assessment Capabilities

Investing in data-driven ESG analytics can help insurers assess the long-term risks and opportunities associated with underwriting businesses in high-risk sectors. African insurers should integrate climate risk modelling and scenario analysis into their underwriting processes to better evaluate exposure to ESG-related risks (PwC Africa, 2023).

2.4.1.3 Advocating for Sector-Specific ESG Policies

Insurers can work closely with regulators and industry associations to establish ESG-aligned policies that consider Africa's unique economic landscape. Rather than adopting wholesale restrictions on fossil fuel and tobacco insurance, policymakers should develop sector-specific ESG guidelines that promote gradual sustainability transitions (African Union, 2023).

2.4.1.4 Incentivizing Sustainable Business Practices

African insurers can introduce ESG-linked premium discounts or preferential coverage for businesses adopting sustainable practices. For instance, insurers could offer favorable terms for mining companies transitioning to cleaner technologies or agricultural enterprises that commit to reforestation and biodiversity conservation (United Nations Environment Programme, 2023).

2.4.1.5 Investing in ESG Capacity Building

Many African insurers lack the expertise to implement ESG policies effectively. Developing in-house ESG expertise through training programs, workshops, and knowledge-sharing initiatives will be critical to building a resilient and informed insurance sector (OECD, 2023).

By implementing these strategies, African insurers can navigate ESG challenges effectively while supporting economic stability and long-term sustainability. (African Development Bank, 2023).

2.5 Comparative ESG Analysis: Africa vs. Other Regions

Compared to developed markets, Africa lags in ESG integration due to weaker regulatory mandates, capacity constraints, and limited market incentives (Bürgin, 2023). However, insights from global markets can provide valuable lessons for enhancing ESG adoption in African insurance industries.

In Europe, the implementation of the Sustainable Finance Disclosure Regulation (SFDR) has significantly accelerated ESG integration among insurers by mandating standardized disclosures and sustainability risk assessments (Siri, & Böffel, 2022). Additionally, Solvency II regulations emphasize capital adequacy requirements that account for climate risks, incentivizing insurers to incorporate ESG factors into their financial planning (Bürgin, 2023). These frameworks have facilitated a robust ESG ecosystem, enabling European insurers to lead in sustainable finance innovation (Taxonomies, 2024).

Similarly, in the United States, regulatory bodies such as the National Association of Insurance Commissioners (NAIC) have developed comprehensive ESG risk management guidelines, promoting responsible investment and climate risk assessments (Muhammad, & Inusa, 2024). While ESG regulations remain voluntary in some U.S. states, federal agencies are pushing for stricter sustainability disclosures, increasing pressure on insurers to align with global ESG standards (Mariani, 2023).

Asian markets, particularly Japan and China, have also made strides in ESG adoption within the insurance sector. Japan's Financial Services Agency has implemented sustainability reporting guidelines that encourage insurers to integrate ESG considerations into their governance frameworks (FSA Japan, 2023). In China, state-led green finance policies have accelerated the adoption of ESG-aligned insurance products, particularly in sectors such as renewable energy and environmental risk management (Oxford Analytica 2023). However, some Asian markets still face challenges related to transparency and ESG data standardization (ADB, 2023).

For Africa, the lessons from these regions highlight the importance of harmonized regulatory frameworks, clear ESG disclosure mandates, and financial incentives that encourage sustainable insurance practices. While African markets cannot directly replicate Western or Asian ESG models due to unique economic and structural factors, adapting best practices from these regions can facilitate a more structured approach to ESG adoption in the insurance sector (Jin, Lv, Li, & Sun, 2023).

Going forward, African policymakers must prioritize the development of ESG-aligned insurance regulations that balance sustainability with economic growth objectives. Strengthening cross-border ESG collaboration, investing in data-driven ESG analytics, and enhancing industry-wide capacity-building initiatives will be critical to bridging the ESG gap between Africa and other global regions (Lammi, 2024).

2.6 The Role of Technology in ESG Implementation

Technological advancements have significantly enhanced the ability of organizations, including insurers, to address Environmental, Social, and Governance (ESG) factors. Emerging technologies such as blockchain, artificial intelligence (AI), and satellite imaging have become indispensable tools for promoting ESG compliance, transparency, and risk assessment across industries, including insurance (Tran, Rodrigues, Strauss, & Williams, 2023) Blockchain has revolutionized ESG reporting by providing a transparent, immutable ledger for tracking sustainability efforts and mitigating fraud. The decentralized nature of blockchain ensures that ESG data

cannot be tampered with, increasing stakeholder confidence in the reported metrics (Asif, Searcy, & Castka, 2023).

Al-powered algorithms are transforming how insurers underwrite risk, particularly in sectors where ESG considerations are critical. These technologies enable insurers to analyze vast datasets in real-time, facilitating more informed decision-making and risk assessment. For example, AI models are now widely used to predict climate change impacts and assess environmental risks, allowing insurers to develop more accurate pricing models that reflect the true cost of ESG factors (Dathe, Helmold, Dathe, & Dathe, 2024). Furthermore, AI is enhancing social and governance risk assessments by automating due diligence processes and providing insights into social trends, such as labor conditions and community engagement, which are central to ESG frameworks (Srivastava, 2023). Satellite imaging and remote sensing technologies have also become key enablers of ESG data monitoring, particularly in tracking environmental changes such as deforestation, land degradation, and water scarcity. These tools provide real-time data that help insurers assess risks associated with climate change and ensure that their underwriting models reflect the latest environmental data (Birshan, Leinert, Nauclér, & Rehm, 2024). Despite these advancements, many African insurers still struggle with digital infrastructure challenges and the high costs associated with implementing such technologies. These barriers have hindered the widespread adoption of advanced ESG technologies in the region (Akware, 2023). The digital divide, coupled with limited access to capital, further complicates the ability of insurers to leverage these technologies effectively, especially among smaller insurers.

While technology holds great potential to enhance ESG compliance and transparency, there remains a significant gap in the capacity to implement these solutions in emerging markets like Africa. The region faces numerous challenges, including inadequate technological infrastructure, high implementation costs, and limited digital literacy, which all hinder the effective integration of these advanced technologies into ESG frameworks (Tran, Rodrigues, Strauss, & Williams, 2023). Governments and international organizations must work collaboratively to address these barriers and support the digital transformation of the African insurance sector to fully capitalize on technological advancements in ESG.

2.7 ESG Risks and Underwriting in Emerging Markets

The growing importance of ESG factors is reshaping underwriting policies in the insurance industry, particularly in emerging markets where environmental, social, and governance risks are becoming increasingly significant. Insurers are facing pressure to incorporate ESG considerations into their underwriting models to reflect the growing impact of climate risks, social factors, and governance issues on long-term risk exposure. Industries that are highly vulnerable to environmental risks, such as agriculture, energy, and construction, are witnessing changes in how insurers assess and price risk. For instance, insurers are increasingly using climate risk modelling to predict future environmental impacts, such as extreme weather events, which may affect the insurability of certain regions or industries (Campbell, Fatoyinbo, Goldberg, & Lagomasino, 2022).

Liability insurance for ESG non-compliance is another critical area where insurers are responding to emerging risks. Companies that fail to meet environmental standards or engage in unethical social practices face growing liabilities, particularly as investors, consumers, and regulators demand greater corporate responsibility. As a result, insurers are developing policies that address these emerging risks by incorporating ESG criteria into their risk assessments (Lorenzi, 2023). In the African context, where environmental disasters such as droughts, floods,

and wildfires are becoming more frequent and intense, insurers are forced to reconsider their traditional under-writing models. Climate risk modelling, including the use of advanced data analytics and predictive models, is becoming an essential tool for insurers to quantify environmental risks and adjust their pricing strategies accordingly (Garrido, Milhaud, Olympio, & Popp, 2024). Despite the growing importance of ESG considerations, African insurers face significant challenges in effectively integrating ESG risk assessment into their underwriting models. A major obstacle is the limited availability of reliable data to quantify ESG risks accurately. Many African countries lack comprehensive environmental data and risk modelling infrastructure, making it difficult for insurers to evaluate the true cost of environmental risks. Furthermore, the lack of standardized ESG reporting frameworks across African markets has exacerbated the challenges in assessing and pricing ESG risks. As such, insurers are struggling to develop accurate risk models, which undermines their ability to effectively price ESG-related risks and provide coverage for emerging sectors (Lorenzi 2023).

In response to these challenges, there is a growing push for regulatory intervention to standardize ESG risk assessment frameworks across African markets. Institutions like the African Union and the African Insurance Organization (AIO) are working to develop regional frameworks for ESG reporting and risk assessment that can help insurers better navigate the complexities of ESG underwriting (Ajibo, & Kaime, 2025). However, as noted by Munich Re (2023), the lack of uniform data standards and the diverse regulatory environments across African countries continue to pose significant challenges in implementing consistent ESG underwriting practices.

2.8 Regulatory Convergence and Harmonization in ESG Standards

Efforts to harmonize ESG reporting standards across African markets are gaining traction as institutions such as the African Continental Free Trade Area (AfCFTA) and the African Union work towards creating a unified ESG regulatory framework. These efforts are aimed at addressing the fragmented regulatory landscape in which each African country has its own set of ESG standards, making it difficult for insurers to operate efficiently across borders. A unified ESG framework would not only promote transparency but also provide insurers with a clear and consistent set of rules to follow, thereby fostering greater cross-border investment and collaboration (Flamee, 2008).

One of the main drivers of ESG regulatory convergence in Africa is the need to align with global ESG initiatives. African countries are under increasing pressure to adopt international ESG standards to remain competitive in the global market. For example, the European Union's Corporate Sustainability Reporting Directive (CSRD) and the International Financial Reporting Standards (IFRS) Sustainability Standards are creating a global framework for ESG reporting that African regulators are beginning to consider. By aligning with these global standards, African insurers can enhance their credibility in the international market and attract foreign investment (Flamee, 2008).

However, despite the progress being made, significant barriers to regulatory convergence remain. Many African countries have developed national ESG policies that are not aligned with regional or international standards. This lack of harmonization has created a complex regulatory environment, where insurers must navigate a patchwork of different ESG requirements depending on the country in which they operate. Moreover, as noted by the UNDP (2022), the lack of resources and technical capacity in many African countries has slowed the implementation of ESG regulatory frameworks. This has resulted in inconsistent enforcement of ESG regulations, further complicating efforts to achieve regulatory convergence.

To address these challenges, it is crucial that African regulators work together to harmonize ESG standards and create a more coherent regulatory framework. The AfCFTA has an important role to play in facilitating this process by promoting cross-border cooperation and encouraging the adoption of standardized ESG reporting requirements across the continent. This will help insurers better navigate the complexities of operating in multiple African markets and support the growth of sustainable finance in the region (Ajibo, & Kaime, 2025).

2.9 Socioeconomic Implications of ESG Adoption in Insurance

The adoption of ESG policies in the insurance sector has significant socioeconomic implications, particularly for low-income populations, small and medium-sized enterprises (SMEs), and informal insurance markets in Africa. While ESG mandates are intended to encourage sustainable practices, they may inadvertently lead to financial exclusion for certain groups. For example, small insurers may find it difficult to comply with stringent ESG requirements due to the high costs of implementation, limiting their ability to access the market and offer affordable insurance products (Cammack, 2004). This could exacerbate the financial exclusion of vulnerable populations, particularly those in rural areas or informal sectors who depend on affordable insurance solutions. In addition, the integration of ESG considerations into insurance policies may result in higher premiums for high-risk industries or regions, particularly those exposed to environmental risks such as flooding, drought, and deforestation. This may make insurance products less affordable for SMEs and low-income populations, further entrenching inequality in access to insurance. As noted by the International Labour Organization (Diana, 2024). regulators must balance the need for ESG compliance with the need for inclusive financial policies that ensure access to insurance for all segments of society.

At the same time, ESG policies also present opportunities for insurers to create innovative products that meet the needs of underserved populations. For example, microinsurance and parametric insurance products can be designed to address the unique risks faced by low-income communities and small businesses. By using technology and data analytics, insurers can develop affordable, targeted products that promote financial inclusion while also meeting ESG objectives (Mhlanga, & Adegbayibi, 2024).

Ultimately, regulators must ensure that the implementation of ESG policies does not disproportionately affect vulnerable groups. This requires a thoughtful approach that considers the financial capacity of insurers and the socioeconomic context of the populations they serve. By fostering an inclusive regulatory environment that supports both ESG goals and financial inclusion, African regulators can ensure that ESG adoption in the insurance sector benefits all stakeholders, not just those who are already well-resourced (Mhlanga, & Adegbayibi,2024).

2.10 Ethical Considerations and Corporate Social Responsibility (CSR) in ESG Insurance

The integration of ethical considerations and corporate social responsibility (CSR) into Environmental, Social, and Governance (ESG) frameworks within the insurance sector requires a delicate balance between profitability and sustainability. Ethical dilemmas often arise when insurers must reconcile business goals with societal responsibility, particularly when underwriting projects or industries that may conflict with environmental or social values. The challenge is exemplified by insurers who must navigate the tension between underwriting fossil fuel projects while simultaneously committing to long-term net-zero goals (Scott, 2001). This contradiction raises significant ethical questions about the role of insurance in either facilitating or hindering progress toward global sustainability targets. Insurers are increasingly being held accountable for how their underwriting practices align

with environmental and social imperatives, raising the stakes for the industry to integrate ESG considerations more effectively into their business models (Freeman, & Medoff, 984).

The ethical dilemma surrounding fossil fuel projects is particularly pronounced in Africa, where many countries are still heavily reliant on extractive industries such as oil, gas, and mining to drive economic development. However, the increasing awareness of climate change and its global consequences is prompting insurers to reconsider their support for high-risk industries. A growing number of insurers are adopting policies that exclude coverage for coal mining, oil extraction, and other environmentally harmful activities, which has significant implications for Africa's energy and infrastructure sectors (Citaristi, 2022). While some argue that these decisions may limit economic growth in resource-rich regions, others contend that supporting unsustainable practices undermines the industry's long-term viability and contradicts the commitment to achieving global sustainability goals. This presents a profound ethical challenge for insurers who must balance the economic development needs of African countries with their moral obligation to mitigate climate change (Scott, 2001).

Corporate Social Responsibility (CSR) is another crucial aspect of ethical considerations within ESG insurance. CSR initiatives, when effectively integrated, can serve as a powerful tool for insurers to address societal needs while enhancing their reputations and driving long-term value. In the context of insurance, CSR can encompass initiatives that promote financial inclusion, improve access to insurance for marginalized communities, and support environmental sustainability (Freeman, & Medoff, 984).). For example, many insurers in Africa are developing microinsurance products to provide coverage for low-income and informal sector workers, ensuring that vulnerable populations are not excluded from the benefits of insurance. However, while CSR initiatives are important, they should not be viewed as mere marketing tools but as integral components of an insurer's broader ESG strategy. Insurers must align their CSR efforts with their business goals and ethical commitments to maximize their impact on society.

In addition, the intersection of ESG, CSR, and impact insurance in Africa requires a nuanced approach to address the region's unique challenges and opportunities. Africa's diverse socio-economic landscape means that the adoption of ESG principles must be tailored to local contexts. Insurers must consider factors such as poverty, inequality, and social instability when developing ESG-aligned products and services. For example, CSR initiatives that focus on community development, education, and health can contribute to improving social outcomes and promoting long-term sustainability in regions where these issues are pressing (Citaristi, 2022). Moreover, insurers must assess the impact of their policies on the broader socio-economic fabric, ensuring that they do not inadvertently perpetuate social inequalities or contribute to environmental degradation. This requires a deep understanding of the local context and a commitment to sustainable development practices that prioritize both financial and social returns.

The ethical challenges surrounding ESG insurance also extend to governance issues, including the need for transparency, accountability, and effective corporate governance structures. Insurers must ensure that their operations adhere to ethical principles by establishing clear governance frameworks that prioritize sustainability. For instance, many insurers are incorporating ESG criteria into their investment decisions, ensuring that the companies they invest in adhere to strong environmental, social, and governance standards (UNEP FI, 2023). Additionally, insurers must promote transparency in their ESG reporting to allow stakeholders, including

customers and investors, to make informed decisions based on reliable data. This heightened focus on governance is essential to maintaining public trust and ensuring that insurers fulfill their ethical obligations.

Furthermore, regulatory bodies and industry associations must support insurers in addressing these ethical challenges by providing guidance on best practices for ESG integration. Policymakers have a critical role to play in ensuring that insurance companies align their practices with national and international sustainability targets. Regulatory frameworks that promote ethical conduct, encourage transparency, and incentivize the adoption of CSR initiatives can help foster a more responsible and sustainable insurance sector.

In a nutshell, the ethical dimensions of ESG in insurance are complex and multifaceted. Insurers must navigate the tension between profitability and sustainability, manage the ethical challenges associated with underwriting high-risk industries, and ensure that their CSR initiatives are aligned with their broader ESG goals. In the context of Africa, these issues are further compounded by the region's unique socio-economic realities. Insurers must take a responsible and context-specific approach to ESG integration, ensuring that their practices promote both financial success and social welfare.

3. Methodology

This study employs a qualitative desk research methodology, which focuses on the synthesis and analysis of existing secondary data sources to explore the integration of Environmental, Social, and Governance (ESG) factors within the African insurance sector. Desk research is an appropriate method for this study due to its ability to provide an extensive overview of the subject using pre-existing data, thereby enabling an in-depth exploration of ESG trends, challenges, and opportunities across multiple jurisdictions without the constraints of primary data collection. By examining a wide range of industry reports, academic literature, and policy documents, this study aims to generate insights into the current state and future trajectory of ESG in Africa's insurance market.

3.1 Justification for Desk Research

Desk research, or secondary research, is a widely used method in the academic study of complex, region-specific phenomena like ESG integration in the insurance sector. One of the major advantages of desk research is its ability to draw from diverse and credible sources such as regulatory reports, academic studies, industry white papers, and publications from international organizations. This approach allows for a broader, comparative perspective, leveraging insights from a range of stakeholders, including insurance regulators, industry bodies, international organizations, and private insurers (Ishtiaq, 2019). Additionally, desk research allows for the analysis of trends and policies over time, which is crucial for understanding the evolving nature of ESG integration within the African insurance market, where data availability may be limited or inconsistent.

Given the multifaceted nature of ESG factors and the rapid pace of change in global and regional regulatory frameworks, desk research offers an efficient and comprehensive approach to understanding the nuances of ESG adoption in Africa. By drawing from existing datasets, the research can tap into a wide range of perspectives and case studies, ensuring that the findings are robust and grounded in existing scholarly and industry knowledge (Pearlson, Saunders, & Galletta, 2019).

3.2 Data Collection

Data for this study were gathered from reputable secondary sources, including academic articles, regulatory reports, industry publications, and policy documents. These sources were selected for their relevance, credibility, and comprehensiveness. The primary sources include:

3.2.1 Environmental Data

Reports from the Intergovernmental Panel on Climate Change (IPCC, 2023), the International Finance Corporation (IFC, 2023), and the African Development Bank (2023) provide critical insights into climate risk assessments, carbon footprint reduction strategies, and investments in renewable energy projects.

3.2.2 Social and Governance Data

The International Labour Organization (ILO, 2023), McKinsey (2023), the World Economic Forum (2023), Transparency International (2023), and the African Union (2023) offer valuable data on social factors like inclusive insurance products, diversity and inclusion policies, community engagement initiatives, and governance factors like anti-corruption measures and regulatory compliance frameworks.

3.2.3 Industry Publications

Key insights from organizations such as the World Economic Forum (2023), World Bank (2023), and PwC (2023) on ESG best practices, emerging trends, and challenges faced by insurers in Africa were incorporated into the study to provide a holistic view of the ESG landscape.

3.3 Data Analysis

Data analysis for this desk research study was conducted through thematic synthesis, content analysis, and comparative analysis, each of which was selected to provide depth and rigor in understanding the ESG factors affecting the African insurance sector. The methods are explained below:

3.3.1 Thematic Synthesis

The first step in the data analysis involved organizing the data according to the main ESG categories—Environmental, Social, and Governance. Each category was further subdivided into specific ESG themes, such as climate risk assessment, carbon footprint reduction, inclusive insurance products, diversity and inclusion, transparent reporting, and anti-corruption measures. Thematic synthesis is essential for identifying recurring patterns and relationships across the various data sources and drawing connections between different ESG factors (Braun, & Clarke, 2006).

3.3.2 Content Analysis

The study employed content analysis to examine how African insurers and stakeholders address ESG integration. This included analyzing the strategies used by insurers to mitigate climate-related risks, promote social inclusion, and enhance governance practices. Content analysis was particularly useful in identifying the presence or absence of key ESG strategies across multiple sources and assessing the depth of their implementation (Krippendorff, 2018).

3.3.3 Comparative Analysis

Given the global nature of ESG frameworks, a comparative analysis was conducted to position the African insurance sector in the context of global trends. This analysis focused on comparing ESG practices in Africa with those in other regions such as Europe and North America, where ESG integration in the insurance industry is more advanced. Comparative analysis helps contextualize the African experience, offering insights into the unique challenges faced by insurers in the region and potential lessons from global best practices (Ragin, 2014).

3.3.4 Trend Identification

An important aspect of the analysis was to identify emerging trends in ESG integration, particularly in relation to climate risk modelling, Al-driven ESG analytics, microinsurance solutions, and sustainable investments. Trend

identification helps anticipate future developments and provides a foundation for strategic recommendations. By tracking industry reports and publications from 2022 and 2023, the study was able to highlight the most relevant and recent developments within the African insurance market.

3.3.5 Limitations

While desk research offers numerous advantages, it also comes with limitations. One of the primary limitations of desk research is the reliance on secondary data, which may be subject to biases or omissions based on the original intent behind data collection (Jensen, 2008). The data used in this study are mostly qualitative and context-dependent, which means that the results may not fully represent the quantitative realities of ESG integration across all African insurance markets. Additionally, the availability of region-specific data on ESG practices in the African insurance sector remains limited, and inconsistencies in reporting standards between countries may affect the accuracy of certain findings. These limitations were mitigated by triangulating data from multiple sources and ensuring that the sources used were credible and up to date.

4. Findings and Discussion

4.1 Environmental Factors

The role of environmental factors in shaping the future of insurance in Africa is increasingly critical, especially in the context of climate change. According to the Intergovernmental Panel on Climate Change (Lee, at, al 2023) the growing frequency and intensity of climate-related events, such as floods, droughts, and wildfires, necessitate comprehensive climate risk assessments within the insurance sector. This research reveals that climate risk modelling is at the forefront of ESG-driven innovations in Africa. Insurers are increasingly integrating climate data into their risk models to anticipate potential damage caused by environmental disasters, thus enabling more accurate pricing and better-informed underwriting practices. The (Lee, at, al, 2023) further stresses the need for the insurance industry to not only predict these risks but to also invest in resilience-building projects that reduce the future burden of climate-related losses.

In line with this, the study identifies carbon footprint reduction as a significant priority for insurers. The International Finance Corporation (IFC, 2023) highlights that insurers are expected to reduce their carbon footprint through various means, such as investing in green bonds, promoting sustainable insurance products, and integrating environmental criteria into their risk assessment processes. Insurers are expected to lead by example in adopting practices that mitigate climate risks, including lowering their operational carbon emissions and financing projects that contribute to renewable energy and environmental sustainability. The African Development Bank (2023) further emphasizes that investing in renewable energy projects not only addresses climate change but also presents insurers with profitable opportunities, given the growing demand for sustainable energy solutions in the region. The integration of renewable energy projects into insurance portfolios allows companies to align their investments with long-term environmental and financial goals, thus contributing to the broader global push for sustainability.

However, the findings also underline significant challenges in implementing these environmental strategies. The lack of consistent environmental data across African markets poses a major obstacle. The inconsistent availability and quality of climate-related data hinder insurers' ability to assess environmental risks with the same precision as their counterparts in developed markets. Consequently, insurers must invest in local climate data collection systems and collaborate with international organizations to improve data sharing and accessibility. Furthermore, the cost of transitioning to greener operations and products is high, and many insurers in Africa,

particularly small and medium-sized companies, face resource constraints that limit their ability to implement ESG strategies effectively.

4.2 Social Factors

The social aspect of ESG integration in Africa's insurance sector is pivotal, as it addresses the pressing need for inclusive insurance solutions. The findings demonstrate that the development of inclusive insurance products is a critical area for growth. The International Labour Organization (ILO, 2023) reports that a significant portion of Africa's population remains excluded from formal insurance markets, often due to poverty, lack of awareness, and inadequate access to financial services. The findings reveal that African insurers are increasingly developing microinsurance products tailored to low-income households, offering affordable coverage for health, life, and property risks. These products are crucial in fostering financial inclusion and supporting the broader development of the insurance market.

Moreover, the study highlights the growing recognition of diversity and inclusion within African insurance firms. According to McKinsey (2023), diversity within organizational leadership is linked to increased innovation, better decision-making, and improved financial performance. The findings suggest that insurers in Africa are beginning to adopt diversity policies not only within their workforce but also in terms of the products they offer. These policies aim to cater to diverse social groups, including women, youth, and marginalized communities. By promoting diversity and inclusion, insurers can tap into previously underserved markets and expand their customer base, thus fostering greater market penetration and promoting social equity.

In addition to inclusive insurance products and diversity policies, the research reveals the increasing focus on community engagement initiatives. The World Economic Forum (2023) argues that insurers have a responsibility to engage with local communities to understand their risks and needs better. In Africa, where many communities face unique social and environmental challenges, insurers are increasingly involving local stakeholders in the development of products and services. These community engagement efforts are critical in building trust and ensuring that insurance solutions are tailored to the specific needs of each locality. Furthermore, such initiatives provide insurers with valuable data and insights into emerging risks, which can inform future product offerings and risk management strategies.

Despite these positive developments, the findings indicate that challenges persist in achieving widespread social inclusion in insurance. Financial exclusion remains a significant barrier, particularly in rural areas where access to insurance services is limited. Furthermore, the high cost of insurance products in relation to the income levels of many Africans remains an obstacle to broader adoption. Insurers must continue to innovate in their product designs and delivery mechanisms to ensure that insurance solutions are accessible, affordable, and relevant to the needs of all social groups.

4.3 Governance Factors

Good governance is essential for the successful integration of ESG factors into Africa's insurance sector. The findings emphasize the growing importance of transparent reporting as insurers increasingly recognize the need to disclose their ESG-related activities. According to the Organization for Economic Cooperation and Development (OECD, 2023), transparent reporting allows stakeholders to assess the environmental, social, and governance risks insurers are exposed to, as well as the steps they are taking to mitigate these risks. Transparency in

ESG reporting is particularly crucial in the context of Africa, where the lack of consistent reporting standards has hindered the development of a unified approach to ESG integration.

The findings also underline the importance of anti-corruption measures in ensuring that ESG strategies are implemented ethically and effectively. Transparency International (2023) stresses that strong anti-corruption frameworks are essential to prevent malpractices, which can undermine the integrity of ESG initiatives. The study finds that some African insurers are adopting stricter anti-corruption policies, including enhanced due diligence processes and the establishment of ethical committees within their organizations. These measures are designed to ensure that insurers not only comply with legal requirements but also uphold the highest ethical standards in their operations.

In terms of governance, regulatory compliance frameworks are becoming increasingly important. The African Union (2023) has been working to establish region-wide regulations that align with global ESG standards, but the findings reveal that progress has been slow. Insurers are often confronted with the challenge of navigating diverse regulatory landscapes, as each African country has its own set of rules and standards. This regulatory fragmentation complicates the process of implementing consistent ESG strategies across the continent. The research suggests that African insurers need to collaborate with regulatory bodies to develop more harmonized and transparent frameworks that promote uniform ESG practices and compliance.

4.4 Challenges

Despite the growing emphasis on ESG integration, several challenges remain. The findings indicate that regulatory misalignment across African markets is one of the primary barriers to ESG adoption. Inconsistent ESG reporting standards, coupled with a lack of regional regulatory coordination, create confusion and hinder the ability of insurers to develop coherent ESG strategies. Additionally, data gaps are a significant challenge in accurately assessing environmental and social risks. The research points out that insurers often struggle to obtain reliable data on climate risks, social vulnerabilities, and governance issues, making it difficult to quantify and manage ESG risks effectively.

Furthermore, capacity constraints within insurance firms and regulatory bodies limit the ability to implement ESG strategies at scale. Smaller insurers, in particular, face difficulties in adopting advanced technologies and securing the necessary financial resources to integrate ESG factors into their operations. To address these challenges, the findings suggest that insurers can leverage technological innovations, such as Al-driven analytics and blockchain solutions, to enhance their risk assessment capabilities and improve transparency in ESG reporting. Moreover, partnerships with international organizations, such as the United Nations Environment Programme (UNEP), and local regulators are essential to build the capacity needed for effective ESG integration.

5. A Roadmap for ESG Integration in the African Insurance Sector

Based on insights from global markets, African insurers and regulators can develop a structured roadmap for ESG adoption tailored to regional economic realities. The following key strategies serve as a framework for enhancing ESG integration within Africa's insurance sector:

5.1 Strengthening Regulatory Frameworks

African policymakers should establish clear ESG regulations, similar to the Sustainable Finance Disclosure Regulation (SFDR) in Europe, to mandate standardized sustainability disclosures and risk assessments (EIOPA, 2022). A phased approach to compliance will facilitate a smoother transition for insurers while minimizing regulatory burdens on smaller market players (African Union, 2023). Cross-border regulatory harmonization, led by regional bodies such as the African Insurance Organization (AIO), can promote consistency and alignment with broader economic integration goals under AfCFTA (AfCFTA Secretariat, 2023).

5.2 Incentivizing ESG Investments

Governments and financial institutions should introduce tax incentives, grants, and regulatory benefits to encourage insurers to invest in sustainable projects such as renewable energy and climate-resilient infrastructure (World Bank, 2023). Establishing green bonds and ESG-aligned insurance products will drive investment in sustainability-focused industries (IMF, 2023). Additionally, insurers should adopt transitional financing models that assist high-risk industries—such as coal, oil and gas, and tobacco—in shifting toward more sustainable business practices rather than enforcing abrupt divestments (ILO, 2023).

5.3 Enhancing ESG Data and Reporting Infrastructure

Africa lacks standardized ESG data collection and reporting mechanisms, making it difficult to assess risk exposure effectively (PwC Africa, 2023). Investing in centralized ESG reporting platforms, leveraging blockchain technology for data integrity, and aligning reporting standards with global benchmarks will enhance transparency and investor confidence (World Bank, 2023). Advanced technologies, such as AI-driven ESG analytics and climate risk modelling, can further refine risk assessments and enable insurers to develop more sustainable insurance products (World Economic Forum, 2023).

5.4 Capacity Building and Knowledge Sharing

Regulatory bodies should collaborate with international organizations such as the NAIC and EIOPA to enhance training programs for insurers, ensuring a deeper understanding of ESG principles and risk mitigation strategies (OECD, 2023). Partnerships with universities and financial think tanks can facilitate research on ESG's long-term impact on African insurance markets (ADB, 2023). Additionally, insurers must invest in upskilling their workforce to integrate ESG considerations effectively into underwriting and investment strategies.

5.5 Public-Private Partnerships (PPPs) and Cross-Sector Collaboration

Governments and insurers should jointly develop ESG-aligned insurance solutions that address Africa's unique risks, such as climate change-induced disasters and biodiversity loss (African Development Bank, 2023). PPPs can also facilitate technology transfers, enabling the adoption of digital solutions for ESG monitoring and reporting (World Economic Forum, 2023). The rise of microinsurance solutions for underserved populations further underscores the need for collaboration between insurers, regulators, and development organizations to close the protection gap and enhance financial inclusion (World Bank, 2023).

6. Emerging Trends Shaping ESG Insurance in Africa

Several emerging trends will shape the future of ESG insurance in Africa. These include:

6.1 Biodiversity Risk Insurance

As industries such as agriculture, fisheries, and tourism face ecosystem degradation, biodiversity-related insurance products will become crucial in mitigating financial losses and promoting sustainable practices (Lloyd's, 2023).

6.2 Carbon Offset Underwriting

Insurers are exploring ways to integrate carbon offset projects, such as reforestation and renewable energy initiatives, into their portfolios to contribute to global climate goals (Lloyd's, 2023).

6.3 Climate-Resilient Infrastructure Coverage

As African countries face the growing threat of climate change, insurers will play a pivotal role in financing and covering infrastructure projects such as flood defences, drought-resistant crops, and renewable energy systems.

6.4 Microinsurance for Social Resilience

Providing affordable coverage to low-income communities will help mitigate the financial impacts of climate change, health emergencies, and natural disasters, promoting financial inclusion (World Bank, 2023).

7. Policy Recommendations for ESG Integration

To support the adoption of ESG principles in the African insurance sector, policymakers should implement the following strategic measures:

7.1 Establishing a Unified ESG Framework

A continent-wide ESG reporting framework, aligned with global sustainability standards, will ensure consistency across markets. Regional economic communities such as ECOWAS and SADC should collaborate to create common ESG guidelines that enhance transparency and comparability among insurers (African Union, 2023).

7.2 Encouraging Sustainable Investments

Regulatory incentives, including tax benefits and ESG certifications, should be introduced to encourage insurers to offer green products. Developing sustainable investment portfolios focused on renewable energy and climateresilient projects will strengthen the insurance sector's role in sustainable finance (IMF, 2023).

7.3 Advancing ESG Data Analytics and AI Integration

African insurers must leverage AI and machine learning to enhance ESG risk assessment, predict climate-related events, and optimize underwriting decisions (World Economic Forum, 2023). Investments in climate risk modelling will improve insurers' ability to develop tailored products that address Africa's unique environmental challenges.

7.4 Strengthening Public-Private Partnerships

Collaboration between governments, insurers, and international organizations will be essential for scaling ESG initiatives. These partnerships can bridge the financing gap for ESG-related projects in key sectors such as renewable energy, agriculture, and infrastructure (UNEP FI, 2023).

7.5 Advocating for Transitional Financing Models

Insurers should develop financial products that support industries transitioning to sustainable practices rather than enforcing abrupt exclusions. Phased withdrawal strategies, combined with transition financing, will facilitate a balanced approach to ESG adoption (ILO, 2023).

8. Conclusion

The integration of ESG principles into the African insurance sector is both a challenge and an opportunity. By implementing structured regulatory frameworks, investing in ESG data analytics, fostering cross-sector collaboration, and supporting sustainable investment initiatives, African insurers can align with global sustainability

trends while strengthening market resilience. The future of ESG insurance in Africa will be shaped by emerging trends such as biodiversity risk insurance, carbon offset underwriting, and microinsurance solutions for vulnerable communities. With a strategic and coordinated approach, African insurers can position themselves as leaders in sustainable finance, driving long-term economic and environmental stability across the continent.

References

ADB, M. (2023). Economic performance. Asian Development Outlook.

Africa, F. S. D. (2022). Africa Private Equity and Debt Programme. página web, https://fsdafrica.org/projects/africa-private-equity-and-debt-programme.

African Union Commission. (2023). Investing in renewable energies for Southern Africa's sustainable development.

Ahn, K. H. (2024). Main contents and implications of the 2023 revision of the OECD Guidelines for Multinational Enterprises. Journal of International Logistics and Trade, 22(2), 80-92.

Ajibo, C. C., & Kaime, T. (2025). Sustainable development under AfCFTA: dimensions, limitations and prospects. Law and Development Review, 18(1), 65-95.

Akware, E. M. (2023). Assessing The Scope And Challenges Of Environmental Sustainability Reporting In Developing Countries.: A Study Of Telecommunications Companies In Kenya And Uganda.

Andre, F. (2025). The effect on enforcement, sustainable practices, and pricing. Greening Our Economy for a Sustainable Future, 153-161.

Asif, M., Searcy, C., & Castka, P. (2023). ESG and Industry 5.0: The role of technologies in enhancing ESG disclosure. Technological Forecasting and Social Change, 195, 122806.

Birshan, M., Leinert, L., Nauclér, T., & Rehm, W. (2024). A different high-growth story: The unique challenges of climate tech. The McKinsey Quarterly.

Black, M. S., Liu, A. A., Parry, I. W., & Vernon, N. (2023). IMF fossil fuel subsidies data: 2023 update. International Monetary Fund.

Böffel, L., & Schürger, J. (2022). Sustainability: A current driver in EU banking and insurance regulation. In Digitalisation, Sustainability, and the Banking and Capital Markets Union: Thoughts on Current Issues of EU Financial Regulation (pp. 229-271). Cham: Springer International Publishing.

Braun, V., & Clarke, V. (2006). Using thematic analysis in psychology. Qualitative research in psychology, 3(2), 77-101.

Bürgin, A. (2023). The European Commission: A climate policy entrepreneur. In Handbook on European Union climate change policy and politics (pp. 23-37). Edward Elgar Publishing.

Cammack, P. (2004). What the World Bank means by poverty reduction, and why it matters. New political economy, 9(2), 189-211.

Campbell, A. D., Fatoyinbo, L., Goldberg, L., & Lagomasino, D. (2022). Global hotspots of salt marsh change and carbon emissions. Nature, 612(7941), 701-706.

Canton, H. (2021). Organisation for economic co-operation and development—OECD. In The Europa Directory of International Organizations 2021 (pp. 677-687). Routledge.

Carney, M. (2017, January). The promise of FinTech–something new under the sun?. In Deutsche Bundesbank G20 conference, [Online], Available from: http://www.bis.org/review/r170126b. pdf [Accessed 17 May 2018]. Citaristi, I. (2022). International Finance Corporation—IFC. In The Europa Directory of International Organizations 2022 (pp. 333-335). Routledge.

Clayton, J., Devaney, S., Sayce, S., & van de Wetering, J. (2021). Climate Risk and Commercial Property Values: a review and analysis of the literature. UNEP FI available at—unepfi. org/publications/investment-publications/climate-risk-and-commercial-prop-erty-values. Climate Risk & Commercial Property Values, 3, 3.

Connor, R. (2015). The United Nations world water development report 2015: water for a sustainable world (Vol. 1). UNESCO publishing.

Dathe, T., Helmold, M., Dathe, R., & Dathe, I. (2024). Approach to ESG Policy. In Implementing Environmental, Social and Governance (ESG) Principles for Sustainable Businesses: A Practical Guide in Sustainability Management (pp. 99-112). Cham: Springer International Publishing.

Dawson, C., Dargusch, P., & Hill, G. (2022). Assessing how big insurance firms report and manage carbon emissions: a case study of Allianz. Sustainability, 14(4), 2476.

de Zwart, F., & de Zwart, F. (2022). FSB Principles for Sound Compensation Practices (FSBP) and FSB Implementation Standards (FSBIS). The Key Code and Advanced Handbook for the Governance and Supervision of Banks in Australia, 595-612.

Dechamps, P. (2023). The IEA World Energy Outlook 2022–a brief analysis and implications. European Energy & Climate Journal, 11(3), 100-103.

Diana, L. (2024). From policies to practices: a journey to ESG implementation.

Erin, O. A., & Bamigboye, O. A. (2022). Evaluation and analysis of SDG reporting: evidence from Africa. Journal of Accounting & Organizational Change, 18(3), 369-396.

FI, U. (2012). Principles for sustainable insurance.

Filipiak, B. Z. (2024). Challenges, prospects and recommendations of financial markets in the scope of SDGs. In The Role of Financial Markets in Achieving the Sustainable Development Goals (pp. 134-153). Edward Elgar Publishing.

Flamee, M. (2008). IFRS and Solvency II: Global exposure and interaction—The work of the IAIS. The Geneva Papers on Risk and Insurance-Issues and Practice, 33(1), 54-59.

Freeman, R. B., & Medoff, J. L. (1984). What do unions do. Indus. & Lab. Rel. Rev., 38, 244.

Garrido, J., Milhaud, X., Olympio, A., & Popp, M. (2024). Climate Risk and its Impact on Insurance.

Gebreysus, A. (2024). Sustainable Finance in Africa: A Comparative Overview.

Gernego, I., Petrenko, L., Lavrynenko, V., & Dyba, M. (2024). Trends and focuses for ESG investment support: A cross country comparative analysis. European Journal of Sustainable Development, 13(1), 167-167.

Ishtiaq, M. (2019). Book Review Creswell, JW (2014). Research Design: Qualitative, Quantitative and Mixed Methods Approaches . Thousand Oaks, CA: Sage. English Language Teaching, 12(5), 40.

Jin, C., Lv, Z., Li, Z., & Sun, K. (2023). Green finance, renewable energy and carbon neutrality in OECD countries. Renewable Energy, 211, 279-284.

Kandie, K., Macheru, J., & Osoro, C. (2023). The Moderating Role of Treasury Bills and Bonds Allocations on the Relationship between Systematic Risk and Investment Portfolio Performance of Pension Schemes.... Int. J. Financ.

Krippendorff, K. (2018). Content analysis: An introduction to its methodology. Sage publications.

Kuchtyak, M., & Bruce, E. (2022). Sustainable bonds to hit record \$1.35 trillion in 2022. Moody's.

Lammi, D. (2024). Focal issues of Sustainable Development presented by the World Economic Forum 2024.

Lawrence, B., Moodley, F., & Ferreira-Schenk, S. (2024). Macroeconomic determinants of the JSE size-base industries connectedness: Evidence from changing market conditions. Cogent Economics & Finance, 12(1), 2397454.

Lee, H., Calvin, K., Dasgupta, D., Krinner, G., Mukherji, A., Thorne, P., ... & Park, Y. (2023). IPCC, 2023: Climate Change 2023: Synthesis Report, Summary for Policymakers. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team, H. Lee and J. Romero (eds.)]. IPCC, Geneva, Switzerland

Lloyd, S. M., Hadziosmanovic, M., Rahimi, K., & Bhatia, P. (2022). Trends show companies are ready for Scope 3 reporting with US Climate Disclosure Rule. World Resources Institute, 24.

Lorenzi, A. (2023). Sustainable Investments and ESG Financial Framework.

Louisot, J. P. (2024). IAIS Provides Tools for Insurance Supervisors to Address Climate-Related Risks. In Enterprise Risk Management in Today's World: A Current and Futuristic View of the Complexity, Resilience, Responsibility and Tools in ERM, Part B (pp. 211-215). Emerald Publishing Limited.

Mainhardt, H. (2023, September). Is the World Bank giving billions of trade finance to fossil fuels?.

Malpass, D. (2022). Remarks by World Bank Group President David Malpass at the Sina Finance 2022 ESG Global Leaders' Summit.

Mariani, S. M. (2023). Environmental, Social, and Governance (ESG) Matters: Can the SEC Mandate Disclosure? Should the SEC Mandate Disclosure?. Notre Dame JL Ethics & Pub. Pol'y, 37, 369.

Martins-da-Silva, A. S., Torales, J., Becker, R. F. V., Moura, H. F., Waisman Campos, M., Fidalgo, T. M., ... & Castaldelli-Maia, J. M. (2022). Tobacco growing and tobacco use. International Review of Psychiatry, 34(1), 51-58.

Mhlanga, D., & Adegbayibi, A. T. (2024). Promoting Sustainable Finance. Sustainable Finance and Business in Sub-Saharan Africa, 473.

Muhammad, L., & Inusa, A. (2024). The role of Nigerian Agricultural Insurance Corporation towards the development of rural finance in Nigeria. International Journal of Intellectual Discourse, 7(1), 212-223.

Nayak, P., Taher, Z., & Maria, A. V. (2024, June). G20 and Sustainable Finance: A Case for GSS+ Bonds. In NDIEAS-2024 International Symposium on New Dimensions and Ideas in Environmental Anthropology; Atlantis Press: Amsterdam, The Netherlands (pp. 182-196).

NGELE, K. M. (2023). MACROECONOMIC VARIABLES AND STOCK MARKET PERFORMANCE AT NAIROBI SECURITIES EXCHANGE, KENYA.

Ongyerth, J. (2023). Implementation of Social Sustainability Regarding Youth at the European Championships Munich 2022.

Owusu-Peprah, N. T. (2024). World Development Report 2022: Finance for an Equitable Recovery: by World Bank, Washington, DC, World Bank Publications, 2022, 267 pp., \$0.00 (E-book), ISBN 9781464817311.

Oxford Analytica. (2023). China's economy needs a consumption boost. Emerald Expert Briefings, (oxan-db).

Pearlson, K. E., Saunders, C. S., & Galletta, D. F. (2019). Managing and using information systems: A strategic approach. John Wiley & Sons.

Pinheiro, C. (2023). Environmental, social, and governance (ESG) reporting and Brazilian agriculture: constraints and opportunities to sustainability. In Sustainability Challenges of Brazilian Agriculture: Governance, Inclusion, and Innovation (pp. 249-269). Cham: Springer International Publishing.

Pugnetti, C., Gebert, T., Hürster, M., Huizenga, E., Moor, M., Stricker, L., ... & Zeier Röschmann, A. (2022). Leading the green insurance revolution.

Ragin, C. C. (2014). The comparative method: Moving beyond qualitative and quantitative strategies. Univ of California Press

Rahman, M. M. (2023). Impact of taxes on the 2030 agenda for sustainable development: evidence from organization for economic co-operation and development (OECD) countries. Regional Sustainability, 4(3), 235-248.

Ratings, F. (2023). Fitch Downgrades First Republic's IDR to B'; Maintains Rating Watch Negative.

Scott, A. J. (2001). Globalization and the rise of city-regions. European planning studies, 9(7), 813-826.

Siri, M., & Böffel, L. (2022). Group supervision and Solvency II review-Overview and critical appraisal of El-OPA's opinion paper and European Commission Solvency II Proposals.

Srivastava, A. K. (2023). ESG framework: Balancing, profit, public & planet. CMR Univ. J. Contemp. Legal Aff., 5, 101.

Stefán, C. I. (2023). The world economic Forum. In The Palgrave Handbook of Non-State Actors in East-West Relations (pp. 1-13). Cham: Springer International Publishing.

Surminski, S., Barnes, J., & Vincent, K. (2022). Can insurance catalyse government planning on climate? Emergent evidence from Sub-Saharan Africa. World Development, 153, 105830.

Taxonomies, S. (2024). 6Regulations as a Driver of Sustainable Finance. Sustainable Finance for Sustainable Development: Regulations, Theory and Practice.

Thokoa, R. L., Naidoo, V., & Herbst, T. (2021). A study of job satisfaction and work engagement at the National Treasury of South Africa. SA Journal of Human Resource Management, 19, 10.

Tran, S., Rodrigues, P., Strauss, B., & Williams, E. M. (2023, January). Accenture at CheckThat!-2023: Identifying Claims with Societal Impact using NLP Data Augmentation. In CLEF (Working Notes) (pp. 518-525).

United Nations Economic Commission for Africa, & African Development Bank. (2022). West African Studies Africa's Urbanisation Dynamics 2022 The Economic Power of Africa's Cities. OECD Publishing.

Van Zyl, M., & Mans-Kemp, N. (2020). Reflecting on corporate governance in South Africa: Lessons learned and the way forward. Southern African Business Review, 24(1).

von Carlowitz, P. (2024). Africa: Status and Developments. Business Success in Africa, 41.

Wang, Z., Sami, F., Khan, S., Alamri, A. M., & Zaidan, A. M. (2023). Green innovation and low carbon emission in OECD economies: Sustainable energy technology role in carbon neutrality target. Sustainable Energy Technologies and Assessments, 59, 103401.

Welsby, D., Price, J., Pye, S., & Ekins, P. (2021). Unextractable fossil fuels in a 1.5 C world. Nature, 597(7875), 230-234.

Winkler, H., Keen, S., & Marquard, A. (2021). Policy approaches to guide finance flows for more effective climate action in South Africa.

World Health Organization, UNEP United Nations Environment Programme, & World Organisation for Animal Health. (2022). One health joint plan of action (2022–2026): working together for the health of humans, animals, plants and the environment. World Health Organization.

清水規子, & 森尚樹. (2021). Japan Sustainable Finance Policy Update June 2021–September 2021.