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HARNESSING AI AND ESG IN REINSURANCE

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In an era of rapid technological advancement and increased social responsibility, Artificial Intelligence (AI) and Environmental, Social, And Governance (ESG) principles are reshaping industries across the globe. The reinsurance industry, known for its role in managing and distributing risk, is no exception. AI enables reinsurers to optimize risk assessment, streamline operations, and forecast future trends with greater precision. Concurrently, ESG initiatives are driving companies to adopt more sustainable, ethical, and community-

focused practices.

As Uganda's economy evolves, the demand for innovative and sustainable insurance solutions grows. Minet Re, a Pan-African reinsurance leader, is strategically positioned to harness AI and ESG principles to transform Uganda's insurance landscape. By embedding these elements into its operations, Minet Re not only addresses modern risks but also enhances value creation for clients and stakeholders. Uganda, with its growing insurance sector and unique socio-economic challenges, presents a fertile ground for implementing these innovations. As a country that is vulnerable to climate change, rapid urbanization, and emerging risks, Uganda requires a proactive approach to reinsurance, which Minet Re is uniquely equipped to deliver.

AI is a transformative force in reinsurance, improving operational efficiency, and providing powerful tools for understanding and managing risk. It has emerged as a game-changer in reinsurance, offering tools to analyse vast datasets, predict risks, and automate claims processes. Here's how Minet Re can leverage AI to transform Uganda's reinsurance market:

1. **Precision in Risk Assessment and Pricing:** AI solutions like Predictive Analytics Platforms (e.g., Google's AutoML or DataRobot) use machine learning to analyse historical and real-time data, creating models that enhance risk assessment accuracy. For example, using DataRobot, reinsurers can combine diverse data sources—weather patterns, geographic data, and historical claims—to better predict flooding or drought impacts in Uganda. This precision allows reinsurers to offer fair and accurate pricing, ultimately benefiting insurers and policyholders.



2. **Automated Claims Processing and Fraud Detection:** AI-based tools like AI-driven claims management platforms (e.g., Shift Technology and Tractable) automate the claims assessment process, reducing time and error while identifying potential fraud. Shift Technology, for instance, uses machine learning algorithms to detect fraudulent claims by comparing data patterns with known fraud indicators. This increases operational efficiency, providing a fairer process for stakeholders and reducing costs that impact premium pricing.
3. **Predictive Analytics for Emerging Risks:** AI's predictive analytics capabilities enable reinsurers to anticipate new risks and market trends. Tools like IBM Watson's Predictive Analytics or SAS Visual Analytics allow reinsurers to analyze data trends and predict outcomes. Whether assessing climate data to predict natural disasters or tracking financial indicators to gauge market shifts, AI enables reinsurers to prepare for future risks more effectively. These insights help reinsurers develop policies tailored to emerging threats, contributing to a more robust reinsurance industry.
4. **Enhanced Customer Engagement and Customization:** AI-powered Natural Language Processing (NLP) tools such as ChatGPT and IBM Watson Assistant allow AI systems to engage clients more effectively by understanding individual needs. Chatbots and virtual assistants can answer common queries, suggest suitable products, and provide essential information, creating a seamless customer experience. By tailoring solutions to individual clients, reinsurers can build stronger relationships and improve client satisfaction.

As the reinsurance industry increasingly embraces ESG values, organizations are held to higher standards regarding environmental sustainability, social responsibility, and governance transparency. Implementing ESG principles provides measurable benefits in brand reputation, customer loyalty, and regulatory compliance, especially in regions like Uganda, where sustainability and community support are integral.

Environmental Responsibility: Climate change directly impacts the reinsurance industry, making environmental sustainability crucial. ESG-aligned companies mitigate their carbon footprint and enhance resilience to climate-related risks. Adopting renewable energy sources and eco-friendly practices and supporting sustainable clients enables reinsurers to manage environmental risks. By supporting environmentally sustainable practices, Minet Re can contribute to Uganda's sustainable development, aligning its goals with the global climate agenda.

Social Impact: Socially focused practices allow Minet Re to address the needs of local communities. AI solutions, like microinsurance platforms developed for low-income populations, can be especially impactful in Uganda. Using AI for microinsurance enables Minet Re to assess and price affordable, smaller-scale policies for underserved populations, fostering financial inclusion and economic resilience.

Governance and Transparency: Good governance ensures trust and transparency in financial reporting, risk assessment, and claims processing. Minet Re's adoption of AI should align with robust governance protocols, ensuring ethical data handling and client confidentiality. Following these governance principles reinforces Minet Re's commitment to ethical AI use, supporting local and international regulatory compliance.



Combining AI and ESG allows Minet Re to offer tailored solutions that benefit both clients and the broader Ugandan community. Here are specific AI-driven ESG applications that Minet Re can leverage to provide innovative solutions in Uganda:

- **Localized Risk Models Reflecting ESG Concerns:** AI can process Uganda-specific data, creating risk models that incorporate environmental and social factors unique to the region. Using predictive modelling tools like Google AutoML, Minet Re can incorporate real-time environmental risks such as flooding and drought into its reinsurance offerings. This approach not only supports more accurate risk modelling but also aligns with Minet Re's commitment to sustainable business practices.
- **Supporting Microinsurance for Financial Inclusion:** AI solutions developed for microinsurance, such as BIMA and MicroEnsure, make it possible to bring affordable insurance coverage to low-income Ugandans. Through AI-based underwriting and automated processes, Minet Re can offer tailored microinsurance products that reduce financial barriers for small businesses and rural households. This solution aligns with social ESG objectives, providing underserved communities with protection against life-changing risks.
- **Streamlining Claims Processing with Ethical AI:** In regions where fraud prevention resources may be limited, AI's fraud detection capabilities are invaluable. For instance, Shift Technology's fraud detection platform can analyze claims data, identifying suspicious patterns that indicate potential fraud. By integrating Shift Technology's fraud detection algorithms into its claims process, Minet Re ensures a fair and ethical claims process. Adhering to strong governance principles around data privacy and security strengthens Minet Re's ESG standing.
- **Sustainable Disaster Prediction and Response Planning:** Uganda is prone to natural disasters, which have significant environmental and economic repercussions. AI-powered tools like The Climate Corporation allow Minet Re to develop models that forecast potential disasters based on historical and real-time data, helping clients prepare for and mitigate these risks. By proactively addressing environmental risks, Minet Re can structure reinsurance agreements that provide targeted support during crises, fostering resilience among Ugandan communities.
- **Client Education and Engagement through AI:** Insurance literacy is low in many parts of Uganda, creating an opportunity for Minet Re to bridge this gap using AI-powered virtual assistants. These tools, built using NLP engines like IBM Watson Assistant, can engage clients in local languages, answer questions, and explain coverage benefits, increasing financial literacy. This aligns with ESG's social dimension, fostering financial literacy and supporting Ugandans in making informed risk management decisions.

Uganda's insurance penetration remains low and is estimated at 0.86% in 2022. This presents both a challenge and an opportunity for insurers and reinsurers. Minet Re's expertise and Pan-African reach position it to bridge the gap by addressing barriers like limited awareness, affordability, and product accessibility. Through the adoption of AI and ESG principles. To execute this strategy, Minet Re could focus on:

Partnering with Local Data Providers: Access to relevant, localized data is crucial for building AI models that align with Uganda's specific risks and ESG goals. Collaborating with Ugandan agencies and institutions can provide Minet Re with valuable data to enhance AI's accuracy and effectiveness.

Investing in Ethical AI Research and Development: AI is evolving rapidly, and Minet Re should stay ahead of trends by investing in R&D with a focus on ethical AI usage. Prioritizing governance and transparency will reinforce the company's commitment to responsible AI implementation.



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Collaborating with ESG-Oriented Tech Firms: Partnerships with technology providers that prioritize ESG can support Minet Re in achieving its AI and sustainability objectives, ensuring that the latest tools and best practices are used.

AI and ESG are transforming the reinsurance industry, providing tools for better risk management, operational efficiency, and social responsibility. Minet Re's integration of these principles not only addresses immediate market needs but also contributes to long-term sustainability in Uganda. As Uganda's economy evolves, Minet Re is well-positioned to lead the transformation of its reinsurance sector. By embedding AI and ESG into its operations, the company is building a sustainable future, creating value for clients, and empowering communities. Through innovation and responsibility, Minet Re is setting a new standard for reinsurance in Uganda and beyond.

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