



Exploring the Likely Impacts of April 2024 Dubai Floods on Ghana's Trade and Economic Outlook: Addressing the Challenges and Forging New Directions: A Literature Review

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Author's contribution

The sole author designed, analysed, interpreted and prepared the manuscript.

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ABSTRACT

The study examines the repercussions of Dubai's flooding on Ghana's trade and proposes actionable strategies for resilience and growth. Through a literature review, it investigates the influence of natural disasters on international trade, focusing on challenges encountered by developing economies like Ghana. The study emphasizes the interconnectedness of global trade networks and the need for proactive risk management. Existing qualitative literature from previous studies was synthesized and analyzed for the study which revealed that over the last three years, Ghana's exports to the United Arab Emirates have grown significantly, from \$117 million in 2021 to \$1.71 billion in 2023. This suggests that the market for Ghanaian goods in the United Arab Emirates is growing, maybe as a result of enhanced market access, diversified product offerings, or rising

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demand. Although Ghana's exports to the United Arab Emirates have been increasing, the UAE's imports into Ghana have varied over time. Ghana has a trade deficit as a result of the steady tendency of imports to exceed exports, notwithstanding fluctuations. Findings suggest potential disruptions to Ghana's trade activities and economic growth due to Dubai's flooding, highlighting the importance of resilience-building measures and diversification of trade partners and markets. Recommendations include investing in resilient infrastructure, promoting digital trade, enhancing institutional capacity, and fostering regional cooperation. By offering insights for policymakers, businesses, and stakeholders, this study contributes to understanding the resilience of developing economies to natural disasters and provides practical guidance for Ghana to navigate the challenges posed by Dubai's flooding and achieve sustainable growth.

Keywords: Natural disasters; global trade; economic resilience; developing economies; supply chain disruptions.

1. INTRODUCTION

1.1 Storm Dumps the Heaviest Rain Ever Recorded in the Desert Nation of UAE, Flooding Roads, and Dubai's Airport

This was the headline of an AP News report by Jon Gambrell on Tuesday, April 17, 2024. Jon narrated how, after a torrential downpour flooded out Dubai International Airport, causing disruptions to international travel, the United Arab Emirates made an effort to dry out on Wednesday from the heaviest rain ever recorded there. According to the new agency, strong thunderstorms battered the United Arab Emirates on Tuesday, flooding down sections of major roadways and Dubai's international airport while also dropping the most rain ever recorded in the nation in hours.

The rain was described as a historic weather event by the state-run WAM news agency, surpassing "anything documented since the start of data collection in 1949. This was before the discovery of crude oil in this energy-rich country, which was then a British protectorate known as the Trucial States.

The rain started late on Monday and, according to meteorological data gathered at Dubai International Airport, soaked the sands and roads of Dubai with about 20 millimeters (0.79 inches) of rain. By 9:00 a.m., the storms had become more intense. local Tuesday and persisted all day, dousing the overburdened metropolis in heavy rain and hail. Over 142 millimeters (5.59 inches) of rain fell on Dubai in a single day at Tuesday's conclusion. The biggest international airport in the world and the hub of long-haul airline Emirates, Dubai International Airport

receives 94.7 millimetres (3.73 inches) of rain on average annually. As planes touched down at the airport, standing water lapped against the taxiways. On Tuesday night, the airport eventually stopped accepting arrivals, and people had trouble navigating the flooded roads to get to the terminals. One pair termed the scene at the airport "absolute carnage," adding that "you cannot get a taxi." They talked to The Associated Press under the condition of anonymity because they wanted to express their opinions openly in a nation where authorities strictly prohibit critical speech. In the Metro station, many are dozing off. Individuals are dozing off at the airport," the individual stated on Wednesday. They eventually took a taxi to a location about thirty kilometers (18 miles) from their home, but on the way, floodwater stopped them. Their carry-on bags clinked away from the duty-free gin bottles as a passerby assisted them over a highway barrier.

Due to the inability of aircraft crews to access the airfield, Dubai International Airport confirmed on Wednesday morning that there were "limited transportation options" and that this had an impact on flights. On social media platform X, the airport stated, "Recovery will take some time." "We appreciate your understanding and patience as we work through these difficulties."

Police and rescue workers moved slowly through Dubai's flooded streets. Tuesday saw lightning streak across the sky, occasionally grazing the top of the world's tallest structure, the Burj Khalifa. There were delays and flooded stations in the city's autonomous metro system.

The UAE, a federation of seven sheikhdoms, closed most of its schools in advance of the storm, and most government workers worked from home when they could. Even though some

workers went outside, most chose to stay inside their cars, with the unlucky ones stalling their cars in the unexpectedly deep water that was covering several highways. To remove the water, the authorities dispatched tanker trucks onto the streets and highways. Some homes were inundated with water, requiring homeowners to save their properties.

While some people slept inside their flooded cars on Tuesday night, the nation's hereditary rulers did not provide any information regarding overall damage or injuries sustained by the populace. According to authorities, a 70-year-old man died in Ras al-Khaimah, the northernmost emirate of the country, after floodwaters washed away his car. The UAE's easternmost emirate, Fujairah, saw the most rain on Tuesday, with 145 millimeters (5.7 inches) dropping there. On Wednesday, the government resumed remote work, and the authorities called off classes.

The United Arab Emirates is an arid republic on the Arabian Peninsula; rain falls there infrequently during the colder winter months. Due to little rainfall, many roads and other locations lack proper drainage, which results in floods.

1.2 The Relationship between Environmental Disasters and Global Trade

Scholarly research has focused more on the relationship between environmental disasters and global trade, especially as it relates to Ghana and other developing nations. With a particular emphasis on how Dubai's flooding may affect Ghana's trade and economic landscape, this review offers an overview of important studies that investigate the effects of natural disasters on trade and economic development. Through the synthesis of current information, this review lays the groundwork for additional research in this field.

Natural catastrophes, such as earthquakes and floods, are well known to seriously impair international trade and economic activity. Noy's [1] research highlights the negative consequences of catastrophes on trade, emphasizing the interruptions to supply networks, production facilities, and transportation infrastructure. Reduced exports and imports, a drop in foreign direct investment (FDI), and a slowdown in overall economic growth are frequently the results of these disruptions.

The interconnectedness of global supply chains increases the impact of natural catastrophes on trade dynamics. Ahn et al. [2] highlight how supply chains are susceptible to disruptions brought on by natural catastrophes, with repercussions felt in numerous nations and sectors of the economy. Research by Hallegatte et al. [3] and Rose and Spiegel [4] emphasize the significance of comprehending supply chain resilience and diversification tactics to lessen the detrimental effects of catastrophes on trade.

Ghana and other developing economies are particularly susceptible to external shocks because they rely on primary commodities, inadequate infrastructure, and institutional limitations. According to research by Cavallo et al. [5], natural disasters have a disproportionately negative impact on developing countries, increasing poverty rates and lowering prospects for long-term prosperity. However, Loayza et al.'s [6] research shows that investing in disaster resilience and implementing proactive risk management measures can help developing economies become more resilient to external shocks.

There is a dearth of knowledge on the precise ramifications for individual nations, especially in Africa, even though the majority of the research now in publication concentrates on how natural disasters affect trade globally. It is critical to evaluate how Dubai's flooding might affect Ghana's commercial and economic environment, given its importance as a hub for global trade and its connections with other African countries, including Ghana's. This study examines the potential effects of Dubai's flooding on Ghana's trade patterns, economic growth, and development prospects to close this gap.

1.3 Conceptual Framework

This review examines the interdependence of international trade and economic systems, particularly emphasizing how the recent floods in Dubai have affected Ghana's trade and economic environment. It considers variables such as interruptions to the supply chain, variations in the price of commodities, changes in investor sentiment, and how resilient Ghana's economy is to shocks from without.

1.4 The Study's Objective

This paper intends to discuss the potential effects of the recent floods in Dubai on Ghana's

trade patterns, economic growth and development, and to offer insights and recommendations for policymakers, enterprises, and stakeholders in Ghana to avoid risks and seize opportunities from this circumstance.

1.5 Importance of the Research

Ghana is susceptible to outside events that could upset worldwide supply chains and market dynamics because it is a developing nation that depends significantly on commerce with other countries. Policymakers must comprehend the potential impact of flooding in Dubai on Ghana's trade and economic environment to devise and execute plans that promote resilience and sustainable development. This study also adds to the larger conversation about how environmental disasters affect international trade and emphasizes the value of nations working together and planning to tackle common issues.

2. THEORETICAL FRAMEWORK

The Republic of Ghana and the United Arab Emirates have strong ties dating back to a time before both nations maintained diplomatic embassies, according to the November 2022 Ghana-UAE Bilateral Trade Report. The two nations have enjoyed a long-standing exchange of benefits, with their thriving commerce, economic cooperation, and diplomatic ties acting as the focal points of these ties. Due to its reputation as one of the fastest-growing economies in West Africa, Ghana has emerged as the preferred market for businesses operating in the UAE. Ghana is therefore viewed as the UAE's entryway to lucrative markets in West Africa. Ghana's business environment and political stability have made it one of the most attractive destinations in Africa for foreign investment.

2.1 Ghana and Dubai's Economic and Trade Relations

The United Arab Emirates and the Republic of Ghana maintained strong ties even before diplomatic missions were established in each other's countries. The two nations have enjoyed a long-standing relationship based on mutual benefit; the main pillars of this relationship are their robust commerce, economic growth, and diplomatic ties. Emirates' seven weekly direct flights to Accra show how popular Ghana is becoming as a travel destination. Companies located in Dubai are keen to expand into Africa to

seize any available investment possibilities. Ghana, one of the top five locations in sub-Saharan Africa for business, offers Emirati enterprises a secure refuge for investments.

Numerous factors have contributed to this trend, including the Ghanaian government's ongoing efforts to increase trade ties and open up different economic sectors to international investment. Dubai-based businesses have benefited from Ghana's trading potential. Dubai's non-oil trade with Ghana reached \$2.1 billion in 2020, the highest amount since 2014 and a 77.3 per cent rise over 2018, despite the COVID-19 outbreak. Ghana serves as both a key market for Dubai and a point of entry for UAE businesses looking to expand into potential West African markets. In 2021, the nation came in sixth on Dubai's list of African trading partners. In terms of exports and reexports by Dubai Chamber members during the first half of 2020, Ghana ranked second in the West African region. Ghana's 2019 exports to the UAE totalled \$1.83 billion. Gold (\$1.75 billion), precious metal compounds (\$33.4 million), and non-fillet frozen fish (\$16 million) were Ghana's top exports to the United Arab Emirates.

Over the previous 23 years, Ghana's exports to the United Arab Emirates have increased at an annualized rate of 47.7 percent, from \$231k in 1996 to \$1.64 billion in 2020. In the same year, the United Arab Emirates export to Ghana was valued at \$330 million. The top three products exported from the United Arab Emirates to Ghana were cars (\$76.3 million), refined petroleum (\$31 million), and delivery trucks (\$19.8 million). Over the past 23 years, United Arab Emirates exports to Ghana have increased at an annual rate of 25.6%, from \$1.73 million in 1996 to \$330 million in 2019.

In addition, the Dubai Chamber of Commerce was founded in Ghana to foster business and provide a range of benefits to Emirati companies wishing to open offices there. The government of Ghana has created and continues to create an environment that is conducive to foreign companies entering the local market. The administration is committed to passing laws that would boost investor confidence and reduce the total cost of doing business in Ghana. GEPA has facilitated business registration for both women and men by offering a single point of contact for registration with other relevant organizations, like the Ghana Standard Authority and the Food and Drugs Authority. There are now 27 Ghanaian businesses operating in Dubai that are registered

with the Dubai Chamber of Trade and Industry, according to a 2015 Graphic Online news article. There is conjecture that this figure has gone up.

Over 68 Emirati businesses are currently registered in the Republic of Ghana, operating in various areas of the Ghanaian economy. Businesses in the UAE and Ghana will have excellent chances to reach a large and profitable consumer base, which will increase jobs and spur economic progress in both nations.

According to the United Nations COMTRADE database on international trade, Ghana's total exports to the United Arab Emirates were US\$1.71 billion in 2023, and this is predicted to increase significantly in 2024.

2.2 How Natural Disasters Affect Trade

Natural catastrophes present serious obstacles to international trade, having an impact on several trade-related areas, including production, transportation, and market dynamics. Policymakers, companies, and other stakeholders must comprehend how natural catastrophes affect commerce to create strategies that effectively reduce risks and boost resilience in the face of calamities.

Transportation infrastructure interruptions are one of the main ways that natural disasters affect trade. According to research by Noy [1], natural catastrophes, including hurricanes, earthquakes, and floods, can cause damage to ports, airports, and highways, which can impede the flow of goods and services. This may result in supply chain interruptions, higher transportation costs, and shipment delays that impact both imports and exports. Ahn et al. [2] expound upon the susceptibility of transportation infrastructure to natural calamities, emphasizing the necessity of allocating resources toward infrastructure resilience and disaster preparedness to alleviate the detrimental impacts on commerce.

Natural disasters can affect trade activity outside of their local impact zone by upsetting global supply systems. According to Hallegatte et al. [3], supply chains are interrelated, and disruptions in one area can have an impact on trade flows and other economic activity all over the world. The disruptions brought about by calamities like the 2011 Tohoku earthquake and tsunami in Japan serve as evidence of how vulnerable nations are to external shocks as a result of their interconnection [4]. To lessen the impact of natural catastrophes on trade, it is crucial to

comprehend supply chain dynamics and put strategies in place to improve supply chain resilience.

In addition to altering trade patterns and commodity prices, natural disasters can also cause changes in market dynamics. Natural catastrophes, for instance, can cause production disruptions that result in shortages or surpluses of particular items, which can impact market prices and trade flows [5]. Furthermore, following natural disasters, shifts in customer preferences and risk perceptions can affect the demand for particular goods and services, changing the dynamics of international trade. Natural catastrophes may have long-term consequences for commerce when nations adjust their trade policies and diversify their markets in reaction to shifting circumstances, according to research by Loayza et al. [6].

It has long been known that major disruptions to international trade and economic activity can result from natural disasters. It is therefore crucial to comprehend the effects of these catastrophes on trade-dependent economies, especially in Africa, given their rising frequency and severity. This thorough literature analysis looks at how natural disasters affect trade and economic growth, with a focus on how Dubai's flooding might affect Ghana's trade and economic environment. Natural catastrophes, such as hurricanes, earthquakes, and floods, have a variety of repercussions on international trade. Noy's [1] research highlights the negative effects of catastrophes on trade, including the interruption of supply networks, production facilities, and transportation infrastructure.

Reduced exports and imports, a drop in foreign direct investment (FDI), and a slowdown in overall economic growth are frequently the results of these disruptions. Furthermore, Ahn et al. [2] draw attention to how disasters might affect supply networks, having an impact on several nations and businesses. Natural catastrophes have a greater influence on global trade networks due to their interconnectedness, which is why trade-dependent nations like Ghana must take them into account.

2.3 Function of International Trade Networks and Supply Chains

Global trade networks and supply chains are essential for enabling the cross-border

movement of products and services that link producers and consumers around the world. Understanding the dynamics of international trade and the effects of numerous events, such as natural catastrophes, on global economic activities requires an understanding of the complexities of these networks. This survey of the literature highlights important discoveries and ideas from the body of study on the function of supply chains and international trade networks.

Supply chains are intricate webs of linked companies that produce, distribute, and market goods and services. According to research by Christopher [7], supply chain players are interdependent, and disruptions in one link can have a domino effect on the entire network. Because of their interdependence, supply chains are more susceptible to a range of hazards, such as economic downturns, natural disasters, and geopolitical conflicts. Comprehending the configuration and behavior of supply chains is essential for evaluating their robustness and devising contingency plans to minimize disturbances.

Global trade networks comprise a web of connections and exchanges that make it easier for products and services to be traded between nations and areas. Baldwin and Everett's [8] research emphasizes the role that trade networks play in promoting market integration and specialization, which enables nations to make use of their comparative advantages and get access to a wider variety of goods and technology. Additionally, trade networks foster efficiency, innovation, and competitiveness in international markets, all of which support economic growth and development.

Supply networks must be made more resilient to minimize the effects of disruptions and guarantee business continuity. Sheffi's [9] research emphasizes the importance of supply chain risk management in identifying, assessing, and managing risks that could harm supply chain operations. This entails creating backup plans, broadening your supplier base, and spending money on technology that improves the flexibility and visibility of your supply chain. Businesses can better endure interruptions brought on by natural disasters, geopolitical upheavals, or other unforeseen circumstances by increasing their resilience.

The seamless operation of supply chains and international trade networks depends on the

implementation of effective trade facilitation rules. According to research by Djankov et al. [10], trade agreements, infrastructure investments, and customs changes are examples of trade facilitation measures that can lower trade costs and increase trade efficiency. Policymakers can improve their countries' competitiveness in international markets and foster economic growth and development by optimizing customs procedures, cutting red tape, and improving logistics infrastructure.

The importance of supply chains and international trade networks is crucial to comprehending how natural catastrophes affect trade. According to Rose and Spiegel [4], strategies for supply chain diversity and resilience are crucial to minimizing the negative effects of disasters on trade. Hallegatte et al. [3] go on to explain the interdependence of supply chains by pointing out how disruptions in one area can spread throughout the entire network and have an impact on trade and economic activity on a global scale. The ability of supply networks to withstand natural disasters is therefore a crucial factor in determining a nation's capacity to endure external shocks and preserve its trade competitiveness.

2.4 Developing Economies' Resistance to External Shocks

Developing economies often face significant challenges in building resilience to external shocks due to factors such as limited institutional capacity, vulnerability to global market fluctuations, and socio-economic disparities. This literature review explores the strategies and factors influencing the ability of developing economies to withstand and recover from external shocks, drawing on recent research and empirical evidence.

Institutional capacity and effective policy frameworks play a crucial role in enhancing developing economies' resilience to external shocks [11]. Recent studies emphasize the importance of robust governance structures, transparent regulatory frameworks, and proactive policy responses in mitigating the impact of external shocks [12]. Research suggests that developing economies with strong institutions and flexible policy frameworks exhibit greater adaptability and resilience in the face of economic downturns and global crises [13].

Economic diversification and structural transformation are key determinants of

developing economies' resilience to external shocks [14]. Recent literature highlights the significance of promoting diversification away from reliance on a few export commodities or sectors vulnerable to external shocks [15]. Studies emphasize the role of industrial policies, investment in innovation, and fostering a conducive business environment in facilitating structural transformation and economic resilience [16].

Social protection measures and inclusive growth strategies contribute to enhancing the resilience of developing economies by reducing vulnerability and promoting economic inclusion [17]. Recent research underscores the importance of targeted social safety nets, healthcare systems, and education investments in building resilience against external shocks [18]. Studies suggest that addressing inequality and promoting inclusive growth can strengthen social cohesion and buffer the impact of external shocks on vulnerable populations [19].

Regional cooperation and trade integration can bolster developing economies' resilience to external shocks by diversifying markets and fostering intra-regional trade [20]. Recent literature highlights the potential benefits of regional trade agreements, infrastructure development, and cross-border cooperation in mitigating the adverse effects of global economic volatility [21]. Research suggests that building regional resilience mechanisms and enhancing trade facilitation can help developing economies navigate external shocks more effectively [22].

Developing economies face multifaceted challenges in building resilience to external shocks, ranging from institutional weaknesses to structural vulnerabilities. Recent literature underscores the importance of strengthening governance structures, promoting economic diversification, investing in social protection, and fostering regional cooperation to enhance resilience and sustain inclusive growth in the face of global uncertainties.

3. MATERIALS AND METHODS

To overcome the obstacles and map out a course for Ghana's trade and economic environment in the wake of Dubai's flooding, the author has analyzed several previous research papers and academic publications. To acquire data and ideas to develop a theoretical framework several hypothetical sources were used. The results of this study are based on a synthesis of

information from the reviewed literature, together with the author's thoughts on the points made. Triangulation of data from several sources aided the validation of conclusions and offered a more complex explanation of the phenomenon being studied. In the wake of Dubai's flooding, the combined findings are utilized to create suggestions for businesses, stakeholders, and politicians on how to overcome obstacles and move forward.

4. RESULTS AND DISCUSSION

4.1 Trade between Ghana and the UAE (Dubai)

The provided data presents the trade between Ghana and the UAE (Dubai) for the years 2021, 2022, and 2023:

Table 1. Trade between Ghana and Dubai (2021-2023)

Year	2021	2022	2023
Exports (USD - \$)	117M	367M	1.71B
Imports (USD - \$)	493M	408M	621M

Source: tradingeconomics.com (accessed 03/05/2024)

Inferring from the data, it is evident that Ghana's exports to the UAE have shown a remarkable increase over the three years, experiencing substantial growth from \$117 million in 2021 to \$1.71 billion in 2023. This indicates an expanding market for Ghanaian products in the UAE, potentially driven by increased demand, product diversification, or improved market access.

While Ghana's exports to the UAE have been growing, imports from the UAE to Ghana have fluctuated over the years. Despite variations, there's a consistent trend of imports exceeding exports, resulting in a trade deficit for Ghana. This highlights the need for Ghana to address factors contributing to the trade imbalance, such as promoting domestic production, enhancing export competitiveness, or diversifying import sources.

The data suggests a growing trade volume between Ghana and the UAE, indicating strengthening economic ties between the two countries. This growth presents opportunities for Ghana to expand its export base, attract investment, and foster economic development.

4.2 Ghana's Top Import Partners

According to Ghana import data 2021, the top importing countries of Ghana are—Ghana, reimport (\$5.18 billion), China (\$3.72 billion), the

United States of America (\$1.53 billion), India (\$1.18 billion), the United Kingdom (\$1.16 billion), Burkina Faso (\$1.02 billion), Togo (\$829.48 million), Belgium (\$711.13 million), the United Arab Emirates (\$526.25 million), and France (\$462.66 million). Ghana shipment data featured the top importing countries of Ghana, which accounted for 64.76% of the total imports from all the countries in 2021. The remaining importing countries accounted for 35.24% in 2021.

Fig. 1 indicates that as of 2021, Ghana's imports from Dubai constitute only 2.1 percent of the country's total imports. This could dip further due to the current flooding of Dubai.

4.3 Dubai's Flooding and Its Potential Implications for Ghana

While much of the existing literature focuses on the broader impact of natural disasters on global trade, there is a gap in understanding the specific implications for individual countries, particularly in Africa. Given Dubai's significance as a global trade hub and its interconnectedness with African economies, including Ghana, it is imperative to assess how Dubai's flooding could shape

Ghana's trade and economic landscape. Understanding the potential channels through which Dubai's flooding may affect Ghana's trade patterns, economic growth, and development prospects is crucial for policymakers, businesses, and stakeholders.

4.3.1 Impact on trade patterns

Dubai's flooding can disrupt global trade patterns through several channels. First, as a major logistics hub, disruptions in Dubai's transportation infrastructure can lead to delays and increased costs for goods transiting through the region [2]. This can affect Ghana's exports and imports, particularly if it relies on Dubai as a transit point for its trade with other regions. Second, disruptions in Dubai's financial sector may impact trade financing and credit availability, affecting the ability of Ghanaian businesses to engage in international trade [4]. Third, supply chain disruptions in Dubai can lead to shortages or surpluses of specific goods, affecting trade flows and market prices globally [3]. Understanding these trade patterns is essential for Ghana to adapt its trade strategies and diversify its markets to mitigate potential losses.

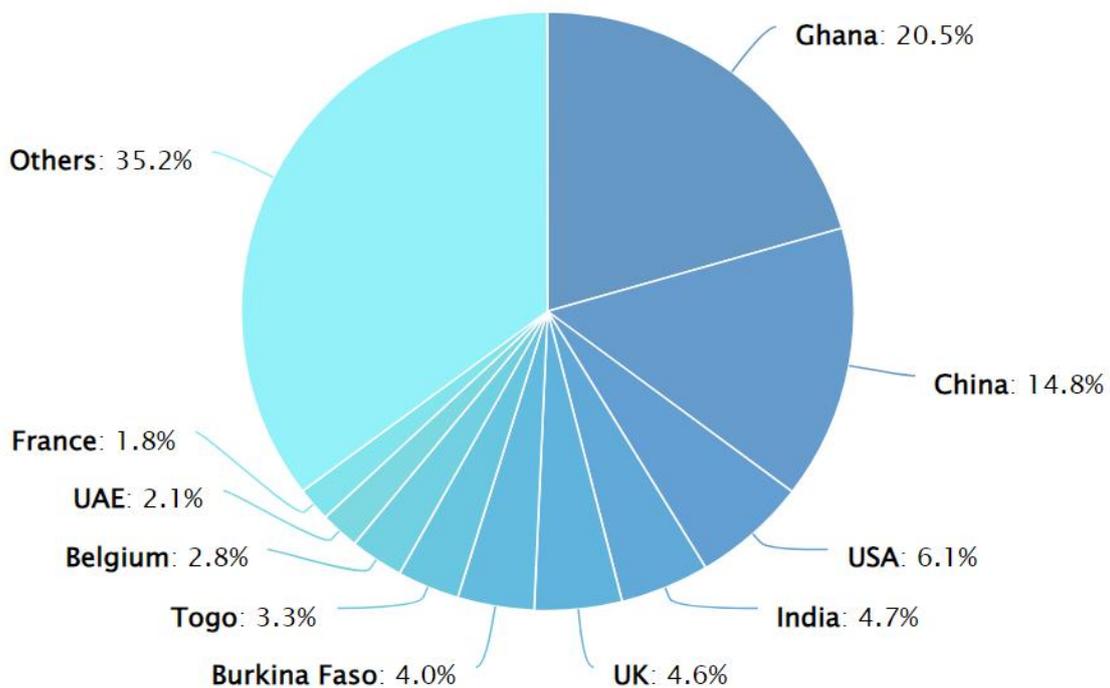


Fig. 1. Ghana's Top Import Partners
Source: *Exportgenius* (Accessed on 3/5/2024)

4.3.2 Impact on economic growth

The impact of Dubai's flooding on Ghana's economic growth can be significant. Disruptions in global supply chains can hamper Ghana's export-oriented industries, such as agriculture and manufacturing, leading to reduced production and export revenues [5]. Moreover, decreased demand for Ghanaian exports due to disruptions in global trade can further exacerbate economic challenges. Additionally, if Ghana relies on Dubai as a source of FDI or financial services, disruptions in Dubai's economy can affect investment flows and access to capital, hindering Ghana's growth prospects [6]. Proactive measures to enhance domestic resilience and diversify economic activities can help mitigate the adverse effects on Ghana's economic growth.

4.3.3 Impact on development prospects

Dubai's flooding can also affect Ghana's long-term development prospects. If Ghana's trade and economic growth are adversely impacted, it can undermine efforts to achieve sustainable development goals and reduce poverty rates [5]. Moreover, disruptions in global trade can affect Ghana's access to essential goods and services, impacting the well-being of its population. Additionally, if Ghana relies on remittances from its diaspora working in Dubai or other affected regions, reductions in remittance flows can further strain household finances and impede development efforts [1]. Strengthening domestic resilience, investing in infrastructure, and promoting economic diversification are essential strategies for safeguarding Ghana's development prospects in the face of external shocks. It is evident that the recent flooding in Dubai, the world's trade hub, can have significant ramifications on Ghana's trade patterns, economic growth, and development prospects. By understanding the interconnectedness of global trade networks and the vulnerabilities of developing economies, policymakers and stakeholders can implement proactive measures to mitigate risks and foster sustainable development. Further research and policy interventions are needed to enhance Ghana's resilience to external shocks and promote inclusive growth.

4.4 Overcoming Challenges and Charting a Path Forward

Navigating the potential challenges of Dubai's flooding and charting a path forward for Ghana's

trade and economic landscape requires a comprehensive understanding of the complexities involved. This literature review synthesizes existing research on overcoming challenges and proposing strategies to chart a path forward in the aftermath of natural disasters, focusing on their implications for trade and economic development.

4.4.1 Resilience building and infrastructure development

Investing in resilience-building measures and infrastructure development is crucial for mitigating the impact of natural disasters and promoting economic recovery. Research by UNDP [23] emphasizes the importance of disaster risk reduction strategies, including early warning systems, infrastructure upgrades, and land-use planning, in enhancing resilience and reducing vulnerability to future disasters. By investing in resilient infrastructure, such as resilient roads, bridges, and ports, Ghana can improve its ability to withstand and recover from the effects of natural disasters, ensuring the continuity of trade activities.

4.4.2 Diversification of trade partners and markets

Diversifying trade partners and markets is essential for reducing reliance on single trading routes and making markets vulnerable to disruptions. Research by the World Bank [24] highlights the benefits of trade diversification in enhancing resilience to external shocks and promoting economic growth. By expanding its trade relationships with other countries and regions, Ghana can reduce its dependence on Dubai as a transit hub and mitigate the impact of disruptions caused by events such as flooding. Moreover, exploring new export markets and diversifying the range of products exported can help Ghana tap into emerging opportunities and strengthen its trade competitiveness.

4.4.3 Promotion of digital trade and e-commerce

Promoting digital trade and e-commerce can facilitate trade activities and enhance resilience to disruptions in physical supply chains. Research by UNCTAD [25] emphasizes the role of digital technologies in facilitating trade, reducing transaction costs, and improving efficiency in cross-border transactions. By harnessing digital platforms and e-commerce

solutions, Ghana can overcome logistical challenges posed by physical disruptions and maintain continuity in trade activities during emergencies. Moreover, promoting digital trade can enhance market access for small and medium-sized enterprises (SMEs) and empower them to participate more effectively in global trade.

4.4.4 Enhancement of institutional capacity and policy coordination

Strengthening institutional capacity and enhancing policy coordination are essential for effective disaster response and recovery efforts. Research by the OECD [26] highlights the importance of institutional frameworks, policy coherence, and coordination mechanisms in facilitating timely and effective responses to disasters [27-31]. By improving coordination among government agencies, private sector stakeholders, and civil society organizations, Ghana can streamline disaster response efforts, mobilize resources more efficiently, and address the diverse needs of affected communities. Moreover, investing in capacity-building initiatives and knowledge-sharing platforms can enhance the preparedness and resilience of stakeholders involved in trade and economic activities.

5. CONCLUSION

The research offers an extensive synopsis of the complex interplay between natural disasters and international trade, with a specific emphasis on the possible ramifications of Dubai's flooding for Ghana's trade and economic environment. It emphasizes the significance of understanding how disruptions in global trade networks can have far-reaching effects on emerging economies like Ghana.

The paper demonstrates the intrinsic susceptibilities of developing economies to external shocks including natural catastrophes, recessions, and unstable geopolitical environments through a thorough examination. It highlights how these shocks disproportionately affect nations like Ghana, which have little institutional resources, a high reliance on primary commodities, and inadequate infrastructure.

This analysis clarifies how Ghana's trade patterns, economic growth, and long-term development prospects may be affected by Dubai's floods. It points out ways that disruptions in international commerce and supply chains

could impact Ghana's export-oriented sectors, capital accessibility, and general economic stability. It also emphasizes how crucial it is to take preventative action to reduce risks and build resilience against external shocks.

The study offers practical policy recommendations that Ghanaian stakeholders, businesses, and policymakers can use to help them overcome the obstacles presented by Dubai's flooding and move forward. These suggestions include making investments in infrastructure development and resilience-building strategies, broadening the range of markets and trading partners, encouraging digital trade and e-commerce, and improving institutional capacity and policy coordination.

Finally, the study adds to the larger body of knowledge regarding the relationship between economic development, international trade, and natural disasters in research and policy debate. It emphasizes the significance of proactive risk management and strategic planning in creating resilient economies in an interconnected world by illuminating the particular effects of Dubai's flooding on Ghana and highlighting the necessity of coordinated action at the national and international levels.

6. LIMITATIONS OF THE STUDY

Possible limitations of the study include biases in the data sources including incomplete or inaccurate data from national statistical agencies and trade databases. Additionally, the study's findings are influenced by contextual factors such as changes in government policies, global economic trends, and other external events beyond the scope of the research. Despite these limitations, the study has provided valuable insights into the impact of Dubai's flooding on Ghana's trade and economic landscape, as well as strategies for resilience building and recovery in the face of natural disasters.

COMPETING INTERESTS

The author has declared that no competing interests exist.

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