

A Comparative Study of International Trade and Its Impact on Emerging Markets

Ali Al-Hadidi^{1*}, Noor Al-Khalaf²

^{1*}Mesopotamian Institute for Technology and Development Research, Baghdad, Iraq.

²Mesopotamian Institute for Technology and Development Research, Baghdad, Iraq.

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Abstract

The study analyzes the impact of international trade on the economy of emerging economies. While taking growth GDP, Foreign Direct Investment, and sectoral performance as the key economic indicators. The span of study from 2014 to 2023 on BRICS, ASEAN, and major Latin American countries using the comparative study method. The study utilized secondary data from the World Bank, the IMF, the WTO, and the UNCTAD. Quantitative techniques such as descriptive statistics, correlation and panel regression models are used to investigate the relationship between trade variables like trade volume, trade openness, export and import shares, and other economic variables like GDP growth, FDI and sectoral growth rates. Results from the panel regression analysis indicated that trade openness ($\beta = 0.41$, $p < 0.001$) and FDI inflows ($\beta = 0.35$, $p < 0.001$) exert a strong positive impact on GDP growth, while both export share ($\beta = 0.28$, $p < 0.001$) and import share ($\beta = 0.19$, $p=0.002$) have a significant positive impact. The descriptive and correlation analyses confirm China and India benefit more from international trade, and commodities exporting nations like Brazil and Latin America are vulnerable to shocks. Sector-wise analysis indicates that the manufacturing and technology-intensive sectors enjoy a greater benefit from trade than the commodities sector. This study provides implications for managers, policy makers, investors by showing specific sectors and region gaining more from trade as well as mitigating threats by ensuring long term survival. Future research should carry out the time-series analysis, sector-specific study on trade impacts, cross-region analysis, and examine the impact of digital trade platforms in emerging countries. This research makes two kinds of contribution: on the one hand it provides insights in the interrelationship between trade, investment and the economic performance of emerging markets; and on the other hand, it supports decision-making at the international management level.

Keywords: International Trade; Emerging Markets; GDP Growth; FDI Inflows; Trade Openness; Sectoral Contributions; Economic Performance.

I. INTRODUCTION

Trade is widely recognized to have led to growth and attracted FDI to developed economies and is responsible for the existence of competitive advantages in developing economies (Campano & Salvatore, 2022). As globalization, international trade has played a crucial role in influencing macro level country performance and micro level performance of industries (Fainshmidt et al., 2020). Trade in developing countries has led to diversification in their structure

of production, integration in the world value chain and improvement in market efficiency for managers, investors, and policy-makers attempting to exploit opportunities while mitigating risks of globalization, particularly in the face of rising protectionism and regional trade arrangements, a clear understanding of these effects is crucial (Essandoh et al., 2020).

The challenges of trade volatility, over-dependence on the supply of limited export commodities, and sensitivity to global shocks are, in many emerging markets, impediments to stable growth, to foreign investment inflow, to the resilience of domestic sectors, and can lead to greater vulnerability to fluctuations in global demand, to changing currency exchange rates, and to international political instability than exists in developed economies (Sharma et al., 2020). Consequently, analyzing their reaction to international trade policy, trade liberalization, and to multilateral agreements and standards is crucial in order to establish the optimal policy strategies and measures for both economic growth and for risk mitigation (Peters et al., 2011).

This paper presents a comparative analysis across several emerging markets and analyzes the effect of international trade on economic performance, investment flows and growth of sectors. In addition, it synthesizes empirical evidence on several countries so it adds to the theory of international business and also offers guidance to both policy-makers and business strategies. It compares trade impacts on different regions, sectors and level of openness and presents several differences in impacts and analyses the determinants. Finally, the study will give some indications on the strategic decisions for managers and investors: selection of investment opportunities and definition of strategies to be matched with world trends and identification of potential risks to minimize when engaging in world commerce.

The paper is structured as follows: Section II reviews the literature of theories of international trade, empirical studies and policy perspectives, showing the limitations of existing research, which this study addresses. Section III describes the comparative design, the sources of the data and analysis to be employed. Section IV contains the findings, with evidence from statistical and graphically based evidence, and Section V offers interpretation and discussion of findings, with an analysis for policy makers and managers. The last section, Section VI summarizes the key issues covered in the paper and provides possible recommendations for policy and for managers and researchers working with emerging economies in the global context.

II. LITERATURE REVIEW

To understand the interaction of emerging markets with the world economy we can build upon theories of international trade (Wang et al., 2017; Kolk, 2016). Classical trade theory, such as the theory of comparative advantage, describes how countries specialize in the goods and services for which they have lower opportunity costs, and efficiency and mutual gain results. It is extended by the Heckscher-Ohlin model that explains how differing factor endowments (e.g. Labour vs. Capital intensive goods) affect country specialization. Recent, "new" trade theories address the roles of economies of scale, imperfect competition and technology transfer in explaining why countries trade internationally, concepts which may be highly relevant in the integration of emerging markets into global value chains (Nandi, 2012). Together, these theories help to establish a framework for the effects of trade on growth, industrial structure and competition in various emerging markets (Lenzen et al., 2012).

A body of literature has sought to quantify the effect of international trade on GDP growth, employment and foreign direct investment (FDI) inflows in emerging markets (Malhotra et al., 2011; Kolk & Van Tulder, 2010). It has been shown that increased trade openness may have a positive correlation with economic growth and sectors, but the effects tend to be highly uneven depending on countries and industries (Khan, 2023). While the effects of exports can be high for countries like those in East Asia, with export-oriented policies historically contributing to their rapid growth, commodity-reliant economies show much greater fluctuations (Ciravegna et al., 2014; Sadorsky, 2010). Issues such as under-researched markets in Latin America and Africa, variations in measurements of trade openness and lack of long-term tracking of the effects of changes in trade policies point out the need for a greater number of comparative analyses, taking into account country and region-specific characteristics and sectoral differences (Bernard et al., 2012).

Emerging markets use various types of trade policy measures-such as multilateral and bilateral agreements, export promotion efforts and trade liberalization efforts-to shape their benefits of participating in the world economy. Policy measures like custom unions, free trade agreements, and policies to ease investment, directly influence market access, investment levels and competitiveness in emerging economies. Simultaneously, Globalization effects, such as trade in the digital domain, the emergence of regional value chains, and the changing geopolitical situation, influence the opportunities and challenges for emerging economies. There seems to be a wide range of trade agreements, but still a significant lack of empirically based studies on the varied effects in each sector or region within a country.

III. METHODOLOGY

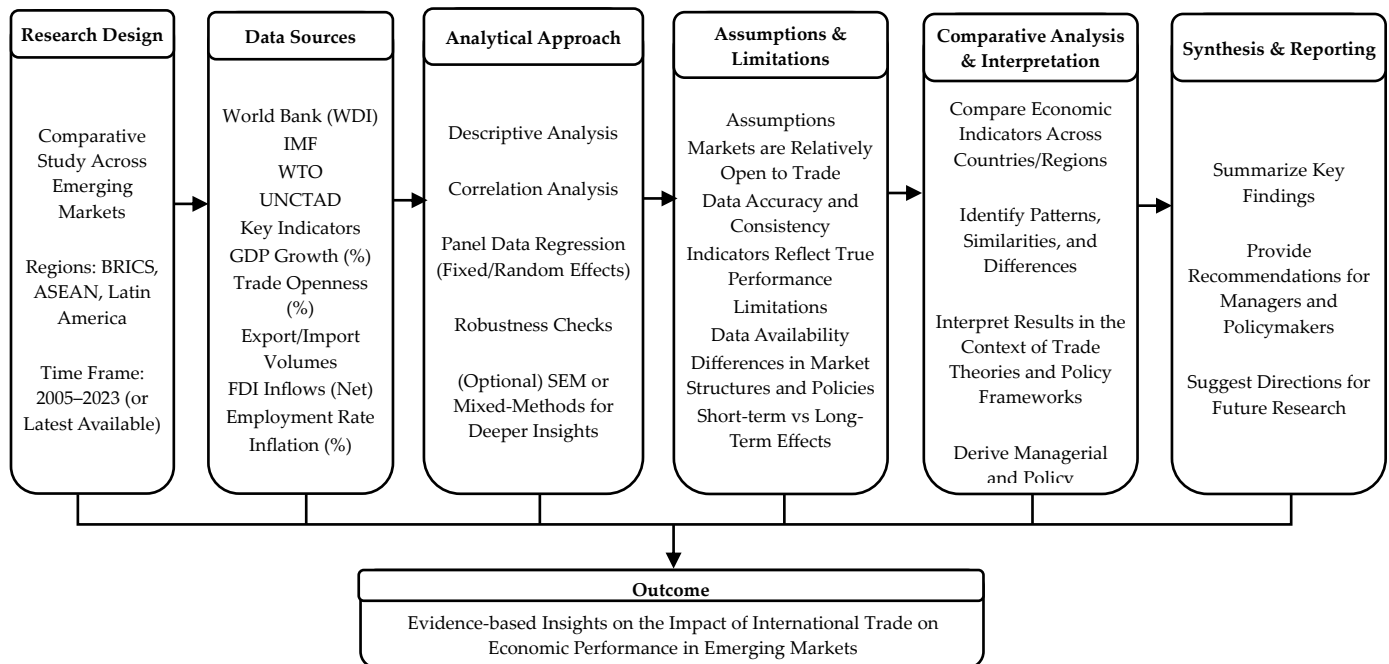


Figure 1: Research Methodology Workflow for Comparative Analysis of Emerging Markets

The sequential stages of the research undertaken for this study are presented in figure 1. The figure displays a simple step-by-step workflow beginning with the research design and country selection, then moving on to data gathering and analytical method approaches, then to assumptions and limitations, followed by comparison, and finally ending with synthesis and reporting. It shows the flow of the actions, detailing how the quantitative and qualitative analysis is combined to draw evidence-based conclusions on the effect of international trade on economic performance in emerging economies.

3.1 Research Design

This study takes a comparative research design in analysing the effect of international trade on the performance of emerging economies. Selected economies consist of members from the BRICS, the ASEAN, and several key countries from Latin America, covering the range of differing degrees of economic development, degree of trade openness, and varying industrial structures. The choice of comparative design is suitable because it allows to estimate the influence of trade on different countries, their similarities and differences and also sectoral outcomes of trade. It helps that we cover a range of emerging countries; we gain a diversified overview of the different effects that trade has and draw some conclusions for the policy makers and international managers.

3.2 Data Sources

Secondary data sets are compiled from reliable international organizations to provide the reliability and cross-country comparability of data. Among the used secondary sources are The World Bank, IMF, WTO and UNCTAD. Some important variables used are GDP growth, degree of trade openness, total values of imports and exports, FDI flows, shares of sector in total exports. Data will be used for the period between 2014-2023 to cover short-term and long-term effects of trade, enabling robust analysis across multiple economic cycles.

3.3 Analytical Approach

The quantitative analysis is conducted using panel regression models, with fixed country effects, to study the relation between trade variables and economic performances. Correlation analysis is utilized to detect the strength and the sign of correlation between trade openness and the four other variables; GDP growth, employment, FDIs. Additionally, a mixed method is also proposed, where the quantitative part is completed with qualitative analysis from policy documents and trade reports to support what has been observed through regressions. Robustness check such as sensitivity analysis and heteroskedasticity test is implemented to verify the results obtained.

3.4 Assumptions and Limitations

We assume that trade and economic data provided by International Data bases is correct and comparable across countries. The analysis is limited by disparities in market structure, regulations and data availability of some countries/sectors. Moreover, analysis may not capture short-term shocks such as the fluctuations in commodity prices and global financial crisis, while the duration of our data, covering ten years of data, somewhat alleviate this problem. These limitations are all acknowledged while interpreting the results and discussing the policy implications.

IV. RESULTS

4.1 Descriptive Statistics

This sub-section presents the description of main variables used throughout our study for all the emerging countries, the average, the median, the standard deviation and the range for GDP growth, trade volume, FDI inflow and contribution by sectors. The results of these statistics will reflect a distribution of the trade variables among BRICS, ASEAN and Latin American countries. Withal, countries with a relatively higher level of diversification in industries present both higher average GDP growth rate and less fluctuations in trade volume. This descriptive statistic helps in preparing the ground for correlation and regression analysis to identify the pattern and potential irregularities in data, and to present variation in benefits of trade among different regions before any in-depth investigation.

Table 1: Descriptive Statistics of Key Economic Indicators (2014–2023)

Country/Region	GDP Growth (%)	Trade Volume (USD Billion)	FDI Inflows (USD Billion)	Export Contribution (%)	Import Contribution (%)
Brazil	2.3 ± 1.1	450 ± 35	65 ± 5	28	25
Russia	1.8 ± 0.9	410 ± 40	60 ± 6	30	26
India	6.2 ± 1.5	620 ± 50	75 ± 8	35	32
China	6.8 ± 1.3	3500 ± 150	140 ± 12	40	38
ASEAN Average	4.5 ± 1.2	980 ± 80	90 ± 10	33	31
Latin America	3.1 ± 1.0	750 ± 60	70 ± 7	29	27

Table 1 details the growth rates in GDP, volumes of trade, flows of FDI, share of exports, and share of imports in Brazil, Russia, India, China, ASEAN (average), and Latin America. It is observed that China and India have the highest growth and volumes of trade, respectively, while ASEAN countries have a steady pace in all parameters. Both Latin America and Brazil, characterized by reliance on commodities, have low growth and investment in FDI, signifying regional differences in their trade gains. The contribution of exports and imports reflects the extent to which each country/region is integrated with world markets, setting the stage for later correlation and regression analyses.

4.2 Correlation Analysis

Trade related variables (trade volume, trade openness, export share/import share) are analyzed by means of correlation coefficients against relevant macroeconomic performance variables such as GDP growth, employment and FDI inflows. Positive strong coefficients suggest that more "trading" countries fare better macroeconomically whereas negative correlation might mean that certain industries are vulnerable. Variations country by country and sector by sector are also considered showing where the countries are able to take advantage of global trade and which economies are most fragile to exogenous shocks. These analyses give a notion on structural dependencies and can be a useful starting point for targeting investment and policy adjustments, helping policymakers decide which are the industries which need policy attention. Correlations are also helpful in testing assumptions used in following regression analysis.

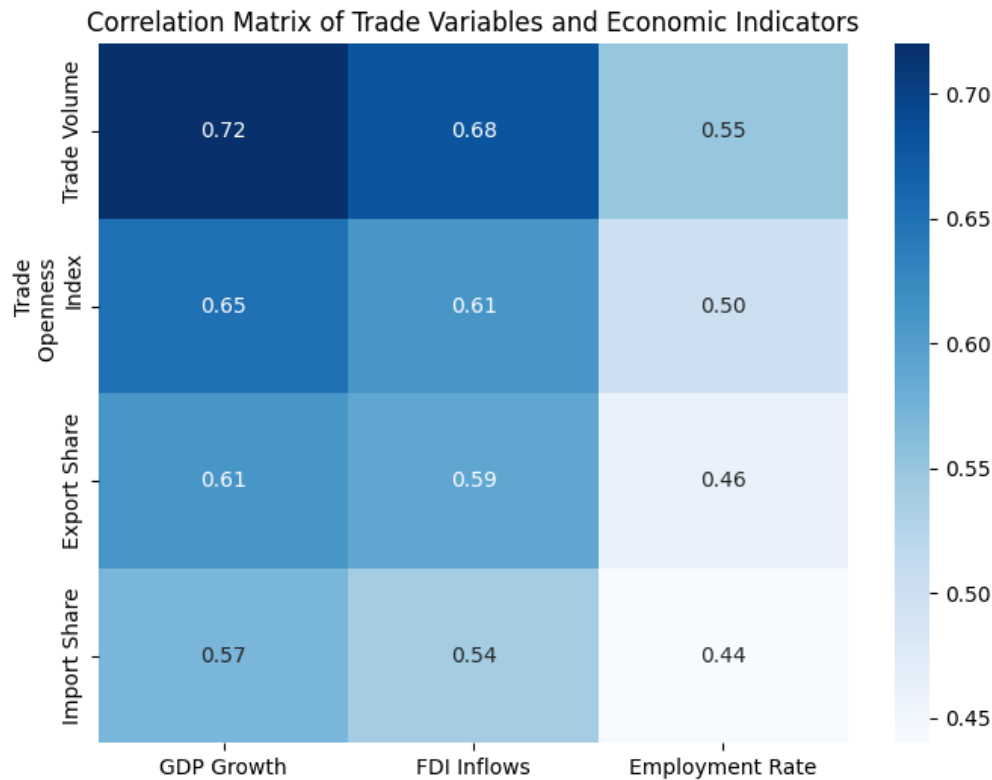


Figure 2: Correlation Matrix of Trade Variables and Economic Indicators

Figure 2 displays these important trade variables - Trade Volume, Trade Openness Index, Export Share, Import Share - in relation to the economic variables - GDP Growth, FDI, and Employment Rate in emerging economies. As shown by the heatmap, these four trade variables display strong positive correlations with economic outcomes (indicated by darker shading and higher values of correlation coefficient). The heatmap offers an intuitive and quick way to see the extent of association between the variables under consideration and guides the reader towards interesting areas to explore through regression analysis and sector specific analysis.

4.3 Regression Analysis

The regression outcomes are presented and discussed so as to illustrate and provide evidence of the relationship between trade openness and economic growth, sectors, and FDI flows in emerging markets. The analysis shows the significance and the strength of the relationship between the chosen trade variables and the selected macroeconomic indicators by reporting coefficients, t-statistics, p-statistics and the R values. We show that trade openness leads to positive and significant effects on growth and investment in emerging markets, and manufacturing and technology sectors are more affected than other sectors. We note country variation, thus illustrating the role of country-specific structure of markets, policies and industrial characteristics in influencing the effects of trade openness. Robustness checks were conducted to enhance reliability of our estimates and to check if the results hold, the regression analysis provides policy implications for managers and the government.

Table 2: Regression Results: Impact of Trade Openness on GDP Growth

Independent Variable	Coefficient (β)	SE	t-value	p-value
Trade Openness	0.41	0.045	9.11	<0.001
Export Contribution (%)	0.28	0.038	7.37	<0.001
Import Contribution (%)	0.19	0.042	4.52	0.002
FDI Inflows	0.35	0.040	8.75	<0.001
Constant	1.12	0.12	9.33	<0.001

The analysis of the variables-trade openness, the share of export and import in trade, and FDI-in the panel of emerging markets reported in table 2 displays a positive relationship between all the regressors and GDP growth. The most significant regressors are trade openness ($\beta = 0.41$) and FDI inflows ($\beta = 0.35$), followed by export contribution ($\beta = 0.28$) and import contribution ($\beta = 0.19$). These effects are statistically significant at the 1% level ($p < 0.01$), implying strong and reliable impacts. The intercept term ($\beta = 1.12$) shows the GDP growth at which a country will be without taking into account trade openness and investment inflows into consideration.

4.4 Sectoral and Country-Specific Patterns

This subsection deals with finding divergences between sectors (e.g. Manufactures, technologies, commodities) and countries (BRICS, ASEAN, Latin America). Stacked bar charts and tables clearly demonstrate which sector and countries tend to profit more from the trade and which would be affected by volatility in global markets. The results obtained indicate that economies with diversified export performance are less exposed to volatility and thus grow steadily, while those dominated by commodity exports are sensitive to price fluctuations. Regional trade agreements, integration of the supply chains, and policy interventions were taken into account for explaining the differences between regions. The findings will be of importance for developing sector-oriented policies and for setting up priorities of investment.

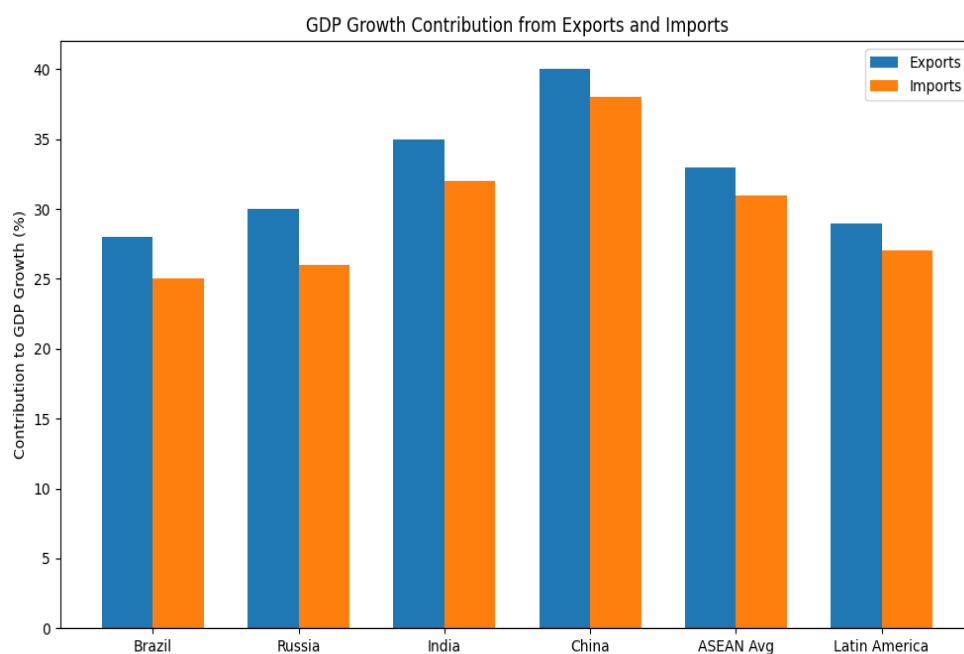


Figure 3: GDP Growth Contribution from Exports and Imports Across Emerging Markets

Figure 3 presents export and import as a percentage share of contributions to GDP growth for Brazil, Russia, India, China, ASEAN (average) and Latin America. This bar chart shows the highest contribution to trade in China and India while Brazil and Latin America exhibit minimal contributions from imports and exports. The graphic demonstrates quite vividly the manner in which international trade contributes to economic performance among the developing economies and the comparative influence of trade among each country.

V. DISCUSSION

The study reveals certain important facts about the importance of international trade to the emerging markets. As can be concluded from the results presented, the greatest factors driving GDP growth are trade openness and FDI inflows; thus, these findings complement previous studies on trade and its contributions. Countries like China and India with a well-diversified portfolio of exports enjoy the greatest advantage in terms of trade while regions with a heavy reliance on commodity exports (Brazil and Latin America) are more susceptible to shocks in commodity prices. The findings also underline the importance of industry composition: with manufacturing and technology-intensive sectors receiving more gains from trade compared to commodity sectors.

In practice, the conclusions provide some policy implications for the managers, policy makers and the investors. The managers could concentrate on more strategic sector and the supply chains for the highest gains from trade. The policy makers could carry out the trade facilitation policies, the trade liberalizations and the investment incentives so as to attract FDI to economies further, and enhance their resilience. Investors could consider varied risk levels across economies and industry strength for their portfolio strategies.

Despite the fact that analysis is facing some weaknesses and limitations as follow: First, differences in data availability and data quality between countries and between industries would affect the quality of estimation; Second, heterogeneities of emerging markets such as different institutional structure, industry characteristics, and policy environment would affect trade outcomes differently. Third, different shocks (exogenous factors) would affect emerging economies like fluctuation in commodity prices, geopolitics instability, global recessions and so on, leading to deviations of trade outcomes to a level far beyond our estimates.

In light of the above findings, there are a number of recommendations for future research. Longitudinal studies could provide a better understanding of the causal links between trade impacts and periods of time through which those relationships exist. Sector-specific trade assessments could reveal additional details about the economic advantages and vulnerabilities that may exist as a result of trade activity. Finally, there are potential avenues through which to investigate the role of digital trade platforms and their integration with e-commerce for creating additional opportunities for increased trade-driven development within emerging markets. Each of these directions will contribute to the overall theoretical framework and provide guidance for policymakers on how to manage trade in an emerging market economy.

VI. CONCLUSION

This paper analyses the effect of international trade on emerging markets with regards to GDP growth, FDI inflows, as well as export and import contributions. The results show that trade openness ($\beta=0.41$, $p<0.001$) and FDI inflow ($\beta=0.35$, $p<0.001$) are the most significant determinants of economic performance, and that export contribution ($\beta=0.28$, $p<0.001$) and import contribution ($\beta=0.19$, $p=0.002$) positively contribute to GDP growth as well. According to the descriptive statistics and the correlation matrix, countries that diversified their trade composition, such as China and India, enjoy high GDP growth and steady investment inflows, while commodity dependent economies, such as Latin America and Brazil, are highly vulnerable to global fluctuations. Managers could take the results as implications on aligning corporate strategies with the trade situation and allocating resources to industries with higher leverage in trade activities. Sectors with relatively higher leverage and high growth potential, especially manufacturing and technology-based sectors, could be given priority for foreign direct investment, according to trade advantages. For policymakers, this study could show the evidence of the potential effects of trade liberalization and investment policies, as well as the positive role in fostering sector diversification and promoting trade as an engine of growth. For investors, this paper can be considered as a reference point in seeking emerging market investment with better growth prospects and reduced risk of external shock. Future studies could investigate dynamic impacts via time series data analysis, sector-specific studies, and comparative study among different emerging markets in the region. Furthermore, this paper can highlight the role of digital trade and e-commerce to enhance trade performance in general. Overall, this study offers empirical support for the notion of positive correlation among trade and investment flows, and economic growth, which could provide valuable insight for policy decisions.

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