Comparative Analysis of FDI Inflow in Emerging Economies

Lekhraj M || M Chetan || Madhushree MV || Prachi O Prabhu || Rakshith K R || Prabharan M || H Chaitra
MBA Student(s), Faculty of Management Studies (CMS Business School),
Jain Deemed to be University.

Dr B Raghavendra Rao
Professor,
Faculty of Management Studies (CMS Business School),
Jain Deemed to be University, Bengaluru.

ABSTRACT

This comprehensive document offers an extensive comparative analysis of Foreign Direct Investment (FDI) inflows in emerging economics, with a primary focus on key emerging countries. These nations have increasing attracted foreign investor seeking new growth opportunities. The BRICS group which includes Brazil, Russia, India, China, and South Africa, stands out as an important subject for this comparative study. The main objective is to gain comprehensive understanding of the foreign direct investment (FDI) inflow patterns is developing countries over the previous decade, emphasizing temporal trends and assessing the profound impact of FDI on their economic growth.

The methodology employed in this research involves secondary data analysis utilizing information from reports by institution like the Reserve Bank of India (RBI), Macro Trends and the Ministry of Commerce. The study also includes an in-depth review of research papers, thorough and a meticulous analysis of FDI inflow data spanning the last 10 years. To gauge the influence of FDI on economic growth, a rigorous regression analysis is conducted.

Emerging economies have increasingly become hotbeds for foreign investment, attracting capital from across the globe. Investors seeking to diversify their portfolios have taken notice of these countries because they present a multitude of growth potential. The BRICS group is unique among these rising economies because of its size, diversity, and potential for economic growth.

Over the past decade, the BRICS nations have experienced significant shifts in FDI inflows, reflecting the evolving global economic landscape. This analysis clarifies the factors driving these investments and their effects on economic growth, with a focus on comprehending the long-term trends in FDI inflows to these nations. It is imperative that investors and regulators alike comprehend these trends. In addition to providing overall FDI inflow statistics, the analysis looks at the industries and geographical areas that have drawn in a lot of foreign capital. Moreover, it examines the evolution of policies and regulations in these countries that have played a pivotal role in shaping FDI trends.

The central theme of this research revolves around assessing the impact of FDI on the economic growth of the BRICS nations. In order to do this, we measure the impact of FDI on these nations' economic performance using rigorous regression analysis. This empirical analysis helps us understand how much foreign direct investment (FDI) has contributed to economic growth and whether this contribution differs across the BRICS nations.

***Key words –** FDI, BRICS, Inflow, economic growth.*

1. INTRODUCTION

Foreign Direct Investment (FDI) plays a crucial role in shaping the economic landscape of emerging economies. As the global economy progresses, these nations have increasingly become attractive to foreign investors seeking new opportunities for growth. Among the emerging economies, the BRICS group, which includes Brazil, Russia, India, China and South Africa, stands out as an important subject for comparative analysis. These countries have diverse economic structures, large populations and strategic geographic locations that have captured significant attention from both developed and developing nations.

This study focuses on comparing FDI inflows among the BRICS countries and sheds light on the distinct factors that influence investment trends and outcomes. By examining what drives FDI inflows along with regulatory environments, sectoral preferences and economic performance in these nations, our aim is to uncover the intricate dynamics involved in attracting foreign capital. additionally, we will explore how outside factors along with worldwide monetary situations and geopolitical shifts effect FDI flows into this economics, in the long run supplying treasured insights for policymakers, investors, and researchers. In this era of world interconnectedness, knowledge the nuances of FDI inflows in rising economies like those in the BRICS bloc is not only essential for those countries' monetary development but additionally important for comprehending the broader trends shaping the world's financial future. This analysis serves as an essential lens via which we are able to gauge the capability of those economics to end up dominant players inside the international investment landscape

Foreign Direct Investment (FDI) is a pivotal driver of economic growth and development, especially in emerging economies. It entails the investment of capital by foreign entities into host countries, manifesting as equity investments, mergers, acquisitions, or the construction of new facilities. The significance of FDI lies in its potential to stimulate economic growth, create employment opportunities, enhance technological capabilities, and foster trade linkages. Emerging economies, characterized by rapid industrialization and globalization, have become magnets for FDI. Therefore, comprehending the patterns, dynamics, and repercussions of FDI inflow in these nations is of paramount importance.

1.2 Objectives of the Study

The primary objectives of this study are.

- To acquire a comprehensive comprehension of the pattern of foreign direct investment (FDI) inflow in developing countries during the previous ten years.
- To perform a thorough examination to distinguish the measurable effect of FDI influx on the economic growth path of these countries.

1.3 Methodology

The methodology employed in this research involves secondary data analysis utilizing information from reports by institution like the Reserve Bank of India (RBI), Macro Trends and the Ministry of Commerce. The study also includes an in-depth review of research papers, thorough and a meticulous analysis of FDI inflow data spanning the last 10 years. To gauge the influence of FDI on economic growth, a rigorous regression analysis is conducted.

2. LITERATURE REVIEW

SS Sinha, DH Kent, H Shomali - Journal of Asia 2007 They Conducted a study to analysis the trend of the FDI investor investing in the 2 large emerging country that is India and China about how they showcased their country performing in the emerging market and their attraction towards foreign direct investment (FDI) and got 15% – 20% increase in their investment and to benefit from the wave of globalization. Y Duna (international journal of business and management)2010 As conducted a study in 2010 to understand the trend of investing by (FDI) in various sector wise in the pattern of where tertiary sector receives more inward of FDI and primary sector at the lest and the secondary sector at the middle but China as the different pattern where the secondary sector has more dominant towards the FDI investment.

L Alfaro Harvard Business School, 2003• Citeseer has taken this research to analysis how (FDI) can convey the host of countries and fid vary greatly from sector to examining the effect of foreign direct investment on growth in production, manufacturing and service sector by using the secondary data cross country data for the period of 1989 -1991 and says that the total FDI exerts an ambiguous effect on growth according to this research the author

PC Athukorala conducted research published in The Journal of Applied Economic Research, 2009• In this research he conducted analysis to find out the different pattern of investment and trend of FDI investment towards the favoring region of east Asia and in the after math of 1997– 1998 cries and how it shifted towards China and India with a 24% total equity restriction for the investment.

According to author DSR Keshava - Second Singapore International Conference on 2008

the author as discussed about how China have attracted the FDI towards them by giving the right infra and holistic development towards the investor and how India should adapt the changes of trend and attract the foreign direct investor towards them through our government policy with high infrastructure developments in the country

Khondoker Abdul Mottaleb and Kaliappa Kalirajan They conducted a study to analysis to bridging the gap between domestic savings and investment and bringing the latest technology and management know-how from developed countries, foreign direct investment (FDI) can play an important role in achieving rapid economic growth in developing countries. Developing countries have not been considered as favorable destinations for FDI as developed countries. Moreover, among the developing countries a few, such as China, India, Nigeria and Sudan, are the major recipients of FDI, with the rest vying for the scraps.

Sophia P. Dimelisa and Sotiris K. Papaioannou This article explores the impact of Foreign Direct Investment (FDI) and Information and Communication Technologies (ICT) on productivity growth in 42 developing and developed countries from 1993 to 2001. The study's growth accounting results reveal that ICT made a substantial contribution to growth in both developed and developing nations, while FDI had a relatively lower impact Econometric analysis confirmed the positive and significant influence of ICT across all groups, with a more pronounced effect in developing countries this article sheds light on the varying contributions of FDI and ICT to productivity growth in different types of economies and underscores the evolving role of technology adoption in economic development.

BN Bandekar, KG Sankaranarayanan - 2015 - academia.edu. The study of this research paper says that the growth of FDI in India is due to globalization and natural resources and it also says that Russia has a large market size and government policy to attract the FDI investment and in this study the author came to know about the most important common factor in both India and Russia is globalization and openness.

RESEARCH GAP

The research gives the clear picture of FDI inflow towards the BRICS countries based on their need for investment and in this research, we came to know how FDI investors differentiate the sector based on the primary, secondary, tertiary sector and also the improvement in the countries globalization and the market space for the FDI investment.

We are going to find the current FDI inflow for the BRICS countries based on the secondary information collected form the Department for promotion of industry and internal trade, Ministry of commerce & industry.

We came to know the pattern of FDI investment in country according to their geographical nature and we also found out the % of increase and decrease in the investment in last ten years from 2013 – 2022 with the help of SPSS and EXCEL and came to the trend between the emerging countries respectively.

3. RESULTS AND FINDINGS

In this research we have used classroom concept of **SPSS** and **EXCEL** to find out the trend line between the emerging countries of (BRICS) i.e., Brazil, Russia, India, China and this gives the reader a clear picture about FDI inflow in last 10 years from 2013 – 2022.

3.1 Brazil Foreign Direct Investment

YEAR	Inflows, US $ in billion	Total GDP in billion	% of GDP
2022	91.57	2470	4.74%
2021	46.44	2460	2.82%
2020	37.79	1860	2.56%
2019	69.17	1800	3.69%
2018	78.16	2060	4.08%
2017	68.89	2060	3.34%
2016	74.29	1800	4.14%
2015	64.74	1860	3.59%
2014	87.17	2460	3.57%
2013	75.12	2470	3.04%

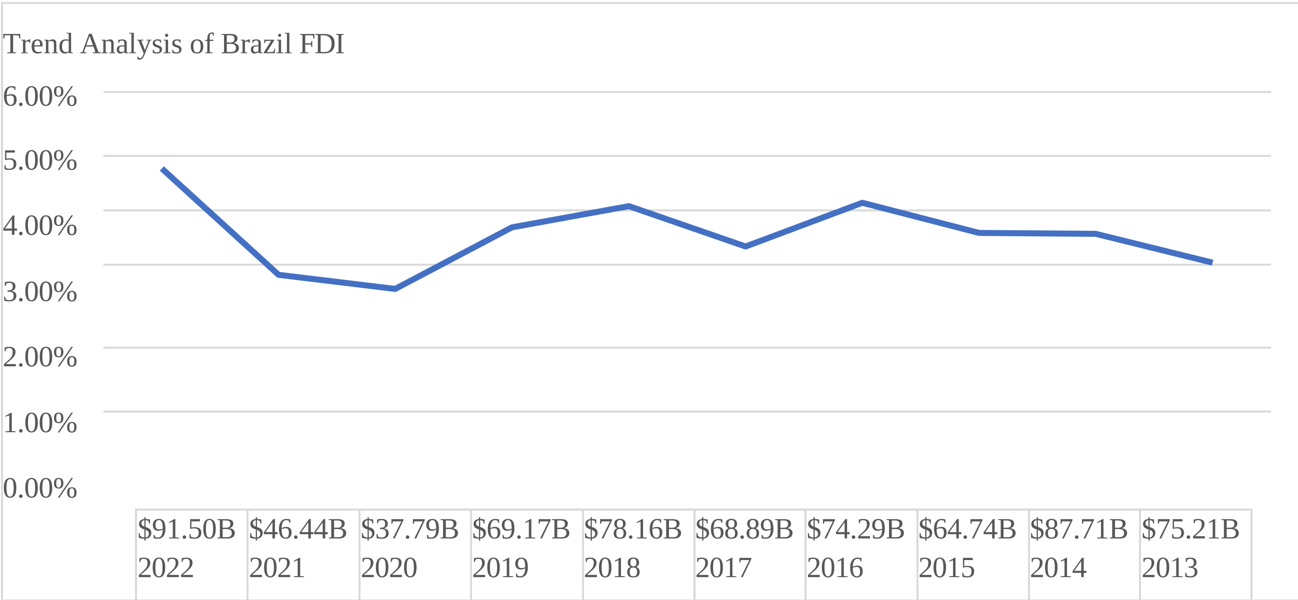

Figure 3.1

Brazil's foreign direct investment (FDI) has been volatile over the past decade, with significant changes. However, FDI grew substantially to $91.50 billion by 2022, representing 4.77% of GDP, indicating renewed investor confidence. The percentage of FDI relative to GDP varies over the years. In order to maintain this positive trend, Brazil must focus on maintaining a stable and attractive economic environment, addressing economic challenges, and ensuring political stability will continue to strengthen with changing global economic conditions and changing investor sentiment.

Regression Statistics	
Multiple R	0.625760945
R Square	0.391576761
Adjusted R Square	0.315523856
Standard Error	13.80663054
Observations	10

ANOVA

	df	SS	MS	F	Significance F
Regression	1	981.4688246	981.4688246	5.148741669	0.052966112
Residual	8	1524.984375	190.6230469		
Total	9	2506.4532			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	-0.486978908	31.1031993	-0.015656875	0.98789156	-72.21108512	71.2371273
X Variable 1	0.035615178	0.01569584	2.269083883	0.052966112	-0.000579494	0.07180985

I

Interpretation

In a regression evaluation between GDP and FDI:

- There is a slight wonderful correlation (R = zero.626) among GDP and FDI.
- About 39.2% of GDP variant may be defined via FDI (R-squared = 0.392).
- The regression version's general significance is borderline (p = zero.053).
- On common, a unit boom in FDI is related to a 0.036unit growth in GDP.
- The intercept isn't always substantially one-of-a-kind from 0 (p = zero.988).

3.2 Russia Foreign Direct Investment

Year	Inflows , US $ in billion	Total GDP in billion	% of GDP
2022	-43.13	2240	-1.93%
2021	40.45	1836	2.20%
2020	9.48	1493	0.63%
2019	31.97	1693	1.89%
2018	8.78	1657	0.53%
2017	28.56	1574	1.81%
2016	32.54	1276	2.55%
2015	6.85	1363	0.50%
2014	22.03	2059	1.07%
2013	69.22	2292	3.02%

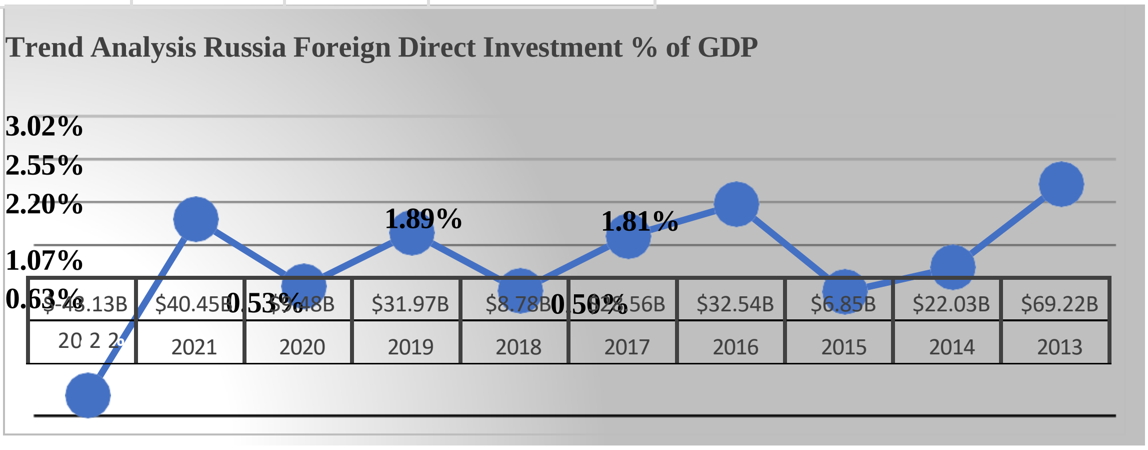

Figure 3.2

Russia has seen a sharp decline in Foreign Direct Investment (FDI) inflows over the past decade. In 2022, there was a poor FDI of -$43.Thirteen billion, marking a net outflow of capital. The percent of FDI relative to Russia's GDP has also reduced significantly, reflecting demanding situations in attracting foreign funding, likely because of economic sanctions, geopolitical tensions, and changing funding sentiment.

Regression Statistics	
Multiple R	0.012518309
R Square	0.000156708
Adjusted R-Square	-0.124823703
Standard Error	30.83801925
Observations	10

ANOVA

	df	SS	MS	F	Significance F
Regression	1	1.192401066	1.192401066	0.001253861	0.972620489
Residual	8	7607.867449	950.9834311		
Total	9	7609.05985			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	22.47885903	51.86721913	0.433392409	0.676178439	-97.12716277	142.0848808
X Variable 1	-0.001031779	0.029138147	-0.0354099	0.972620489	-0.068224467	0.066160909

Interpretation

- There is a very weak and statistically insignificant correlation between the unspecified independent variable (X variable 1) and Russian GDP.
- The model explains an almost negligible amount (0.016%) of the change in Russian GDP.
- The adjusted R-square is negative, indicating poor fit of the model.
- The standard error of the regression is quite large at 30.84.
- The regression model is not statistically significant (p = 0.973), as the F-statistic is very small.
- Both the intercept and the coefficient of the independent variable are not statistically significant (p = 0.676 and p = 0.973, respectively), indicating that neither of them has a significant impact on Russian GDP

3.3 India Foreign Direct Investment

Year	Inflows, US $ in billion	Total GDP in billion	% of GDP
2022	49.92	3385	1.47%
2021	44.73	3150	1.42%
2020	64.36	2671	2.41%
2019	50.61	2835	1.78%
2018	42.12	2702	1.56%
2017	39.97	2651	1.51%
2016	44.46	2294	1.94%
2015	44.01	2103	2.09%
2014	34.58	2039	1.70%
2013	28.15	1856	1.52%

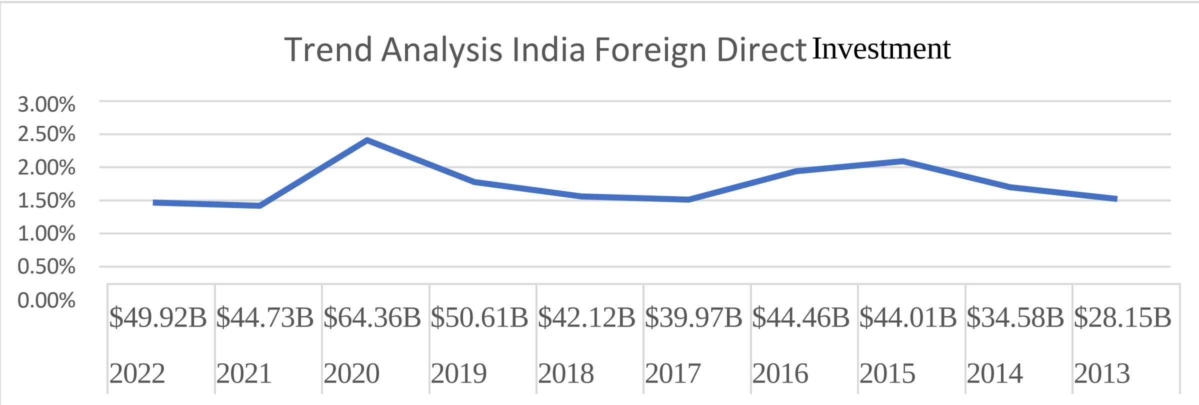

Figure 3.3

India has skilled consistent growth in Foreign Direct Investment (FDI) inflows during the last decade, increasing from $28.15 billion in 2013 to $49.92 billion in 2022. The percent of FDI relative to India's GDP has various but generally remained slight, with a height of 2.41% in 2020. This indicates continued foreign investor interest in India's economic system, possibly driven by using its large consumer market, financial reforms, and efforts to improve the benefit of doing commercial enterprise

Regression Statistics	
Multiple R	0.570752211
R Square	0.325758086
Adjusted R Square	0.241477847
Standard Error	8.478362083
Observations	10

ANOVA

	df	SS	MS	F	Significance F
Regression	1	277.8391011	277.8391011	3.865177523	0.084866342
Residual	8	575.0609889	71.88262362		
Total	9	852.90009			

	Coefficient s	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	15.36634642	14.95469478	1.027526582	0.334235079	-19.11924159	49.85193443
X Variable 1	0.011260863	0.005727788	1.966005474	0.084866342	-0.00194744	0.024469167

<u>Interpretation</u>

- There is a mild high-quality correlation between the variables.
- The version explains approximately 32.6% of the variation in India's GDP.
- The model's suit, as indicated by means of the adjusted R-squared price, is slight but no longer top-rated.
- The fashionable blunders of the regression are rather low, suggesting affordable accuracy in predictions.
- The normal importance of the regression model is borderline massive (p = zero.1/2).
- The coefficient for the independent variable shows a marginal effect on India's GDP, but its importance is likewise borderline (p = zero.0.5).

3.4 <u>China foreign direct investment</u>

Year	Inflows, US $ in billion	Total GDP in billion	% of GDP
2022	180.17	17963	1.00%
2021	344.07	17820	1.93%
2020	253.1	14687	1.72%
2019	187.17	14279	1.31%
2018	235.37	13894	1.69%
2017	166.08	12238	1.35%
2016	174.75	11233	1.56%
2015	242.49	11061	2.19%
2014	268.1	10475	2.56%
2013	290.93	9570	3.04%

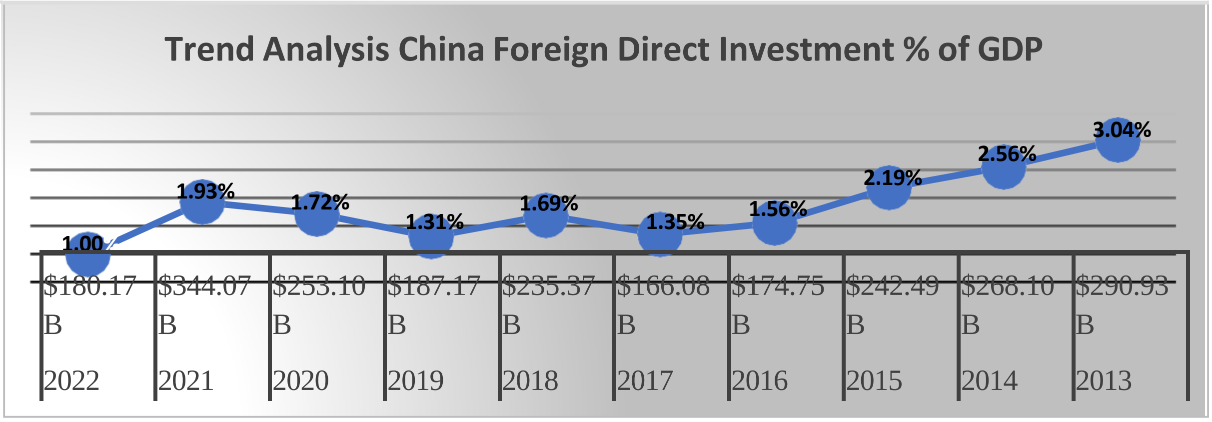

Figure 3.4

China's Foreign Direct Investment (FDI) inflows have steadily decreased over the past decade, falling from $290.93 billion in 2013 to $180.17 billion in 2022. The percentage of FDI relative to China's GDP has also dropped, declining from 3.04% in 2013 to just 1.00% in 2022. This decline could be attributed to a range of factors, including changes in China's economic strategy, government policies, trade tensions, and global economic conditions. China's reduced dependence on foreign investment and its focus on promoting domestic consumption may have contributed to this trend.

Regression Statistics	
Multiple R	0.061928418
R Square	0.003835129
Adjusted R Square	-0.12068548
Standard Error	61.2945787
Observations	10

ANOVA

	df	SS	MS	F	Significance F
Regression	1	115.7131889	115.7131889	0.03079915	0.86504993
Residual	8	30056.20302	3757.025378		
Total	9	30171.91621			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	217.9667945	94.63586189	2.303215611	0.050218123	-0.263894387	436.1974833
X Variable 1	0.001220253	0.006953131	0.175496867	0.86504993	-0.014813695	0.0172542

Interpretation

- There is a very weak and statistically insignificant correlation between GDP and the dependent variable.
- The model explains only about 0.38% of the variation in GDP.
- The regression model is not statistically significant, indicating inadequacy.
- The coefficient of intercept for the independent variable has no significant effect on GDP.
- Overall, the study does not provide strong evidence of a meaningful relationship between the two variables.

4. CHALLENGS

Infrastructure Deficiency - Many rising economies lack the important infrastructure for corporations to operate correctly. This includes transportation, power, and verbal exchange infrastructure. Without those, attracting FDI can be difficult.

Political and Regulatory Risk - Political instability, corruption, and inconsistent policies in emerging economies can deter overseas buyers. Investors searching for balance and predictability inside the enterprise surroundings.

Economic Volatility - Emerging economies regularly revel in economic volatility, such as inflation, foreign money fluctuations, and monetary deficits. These can create uncertainties for overseas traders.

Limited Access to Financing - Access to financing can be limited for foreign organizations in rising economies, as neighborhood economic systems may be underdeveloped or biased towards domestic businesses.

Cultural and Language Barriers - Cultural differences and language barriers can pose challenges for foreign businesses seeking to establish a presence in emerging markets. Effective communication and information local customs are important.

5. SUGGESTIONS

Promotion Agencies - Create investment promotion groups to actively market the country's funding possibilities to ability buyers worldwide.

Access to Finance - Facilitate access to financing for overseas investors with the aid of developing strong economic structures and offering credit ensures where wished.

Environmental and Social Responsibility - Promote accountable business practices that adhere to environmental and social requirements, that may appeal to moral buyers.

Local Partnerships - Encourage overseas investors to collaborate with neighborhood companies or form joint ventures to promote generation transfer and build nearby ability.

Sector-Specific Strategies - Develop centered techniques for specific sectors wherein the use of a has a competitive benefit or high increase capability.

Investor Support Services - Offer support services for foreign investors, which includes assistance with permits, visas, and different logistical topics.

Market Research - Conduct marketplace research to pick out rising possibilities and tendencies that is probably of hobby to foreign traders.

6. CONCLUSION

This comparative analysis of Foreign Direct Investment (FDI) inflow in emerging economies, with a specific focus on the BRICS nations (Brazil, Russia, India, China), has revealed important insights into the dynamics of FDI and its impact on economic growth. The study highlighted that FDI can bring substantial benefits to emerging economies, including capital inflow, job creation, technology transfer, and access to global markets. However, it also uncovered several challenges, such as infrastructure deficiencies, political and regulatory risks, economic volatility, limited access to financing, and cultural barriers. This study employed rigorous methodologies, including regression analysis, to examine the relationship between FDI, GDP and various factors influencing Investment trends.

To address these challenges and maximize the benefits of FDI, it is recommended that emerging economies establish investment promotion agencies, improve access to finance, promote responsible business practices, encourage local partnerships, develop sector-specific strategies, provide investor support services, conduct thorough market research, and actively engage in international networking.

In today's interconnected world, understanding the nuances of FDI inflows in emerging economies like the BRICS countries is not only crucial for their economic development but also for comprehending broader global economic trends. This analysis serves as a valuable lens through which we can assess the potential of these economies to become dominant players in the international investment landscape.

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