


**THE ROLE OF FOREIGN DIRECT INVESTMENT IN THE
ECONOMIC DEVELOPMENT OF POST-COMMUNIST
TRANSITION ECONOMIES**

El papel de la inversión extranjera directa en el desarrollo económico de las economías en transición poscomunista


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Este trabajo está depositado en Zenodo:

DOI: <https://doi.org/10.5281/zenodo.14291717>

RESUMEN

La inversión extranjera directa (IED) ha desempeñado un papel crucial en el crecimiento y el avance de muchas economías emergentes y en desarrollo, en particular las que se recuperan del régimen comunista. Este estudio busca determinar la influencia de la inversión extranjera directa (IED) en el desarrollo económico de las naciones que atravesaron una transición poscomunista. El presente artículo examina empíricamente los datos recopilados de muchos países poscomunistas para verificar las conexiones hipotéticas entre la inversión extranjera directa (IED) y el progreso económico. Los resultados sugieren que la inversión extranjera directa (IED) impacta sustancialmente la economía de estas naciones al promover niveles más altos de inversión, creación de empleo y productividad. La inversión extranjera directa (IED) puede promover el crecimiento al difundir el conocimiento y facilitar la transferencia de tecnologías. Además, la investigación enfatiza la importancia de la calidad institucional para atraer inversión extranjera directa (IED). Este estudio tiene dos implicaciones notables. En primer lugar, puede ayudar a los responsables de las políticas en los países que atraviesan una transición después del comunismo a crear condiciones favorables para la inversión, promoviendo así el crecimiento económico y atrayendo inversión extranjera directa (IED).

Palabras claves: Inversión extranjera directa, crecimiento económico, economías de transición postcomunistas.

ABSTRACT

Foreign Direct Investment (FDI) has played a crucial role in the growth and advancement of many emerging and developing economies, particularly those recovering from communist rule. This study seeks to determine the influence of foreign direct investment (FDI) on the economic development of nations that underwent a post-communist transition. The current article empirically examines data gathered from many post-communist countries to verify the hypothesized connections between foreign direct investment (FDI) and economic progress. The results suggest that foreign direct investment (FDI) substantially impacts the economy of these nations by promoting higher levels of investment, job creation, and productivity. Foreign direct investment (FDI) may promote growth by spreading knowledge and facilitating the transfer of technologies. Furthermore, the research emphasizes the importance of institutional quality in attracting foreign direct investment (FDI). This study has two notable implications. At first, it may aid policymakers in countries experiencing a transition after communism in creating favorable conditions for investment, thereby promoting economic growth and attracting foreign direct investment (FDI).

Keywords: Foreign direct investment, economic growth, post-communist transition economies.

INTRODUCTION

The role of foreign direct investment (FDI) is to promote economic growth and development by facilitating the cross-border transfer of resources, such as capital, technology, and knowledge, from one country to another. FDI can provide a range of benefits to host countries, including the creation of new jobs, increased investment, and the transfer of knowledge and technology, which can contribute to productivity and competitiveness [1].

FDI can play a particularly important role in emerging and developing economies, where domestic resources may be limited or insufficient to finance economic expansion. FDI can also help to diversify economies, promote exports, and create linkages between domestic and foreign firms [2]. However, the effectiveness of FDI in promoting economic growth is contingent on a range of factors, including the quality of domestic institutions, the investment climate, and the level of human capital in host countries [3], [4].

The role of FDI is to support economic growth and development in host countries by providing resources, knowledge, and technology that may not be available domestically. Foreign direct investment in fostering economic growth has been widely recognized in academic literature and policy circles. FDI involves the cross-border transfer of resources from one country to another and can provide a range of benefits to hosting countries, including the creation of new jobs, increased investment, and the transfer of knowledge and technology [5], [6].

Post-communist transition economies and emerging economies have been particularly reliant on FDI to drive economic growth and development, as these countries often lack the necessary domestic resources

to finance their economic expansion. However, the effectiveness of FDI in promoting economic growth is contingent on a range of factors, including institutional quality and the investment climate in host countries [7].

In this context, this study focuses on the relationship between FDI and economic growth in post-communist transition economies. The transition from a centrally planned to a market-oriented economy in these countries has been characterized by a significant inflow of FDI, making them an ideal context for an empirical analysis of the impact of FDI on economic growth. The study aims to assess the extent to which FDI contributes to economic growth in these economies and to identify the key mechanisms through which this occurs, such as technology transfer and knowledge spillovers.



Figure 1. Mapping the Impact of FDI on Economic Growth: A Systematic Research Approach

The study will use an empirical approach to analyze the relationship between FDI and economic growth and will explore the role of institutional quality and the investment climate in attracting FDI to post-communist transition economies. The findings of this study will have important implications for policymakers in these countries, as well as for those in other developing economies seeking to attract FDI and promote economic growth.

The Aim of the Article

This article aims to analyze FDI's impact on post-communist transition nations' economic growth. The study will examine how FDI has affected

these nations' economies, labor markets, technology transfer, and other areas. The success of policies intended to attract foreign investment and the factors that influence FDI inflows will also be evaluated. The paper aims to provide insights and suggestions for policymakers and investors interested in these rising economies.

Problem Statement

Many post-communist nations in Eastern Europe and Central Asia have been grappling with economic instability and political turbulence since the fall of the Soviet Union in 1991. To spur economic growth, these nations started shifting to market-oriented economies. However, the results of this transformation and the role that FDI plays in fostering economic development in these nations remain contentious. This study investigates whether foreign direct investment (FDI) inflows have significantly contributed to the economic growth of post-communist transition nations. The study examines how foreign direct investment (FDI) affects these nations' economies and the difficulties they confront in attracting and keeping FDI.

ANALYSIS OF THE THEORETICAL IMPACT OF FDI ON ECONOMIC EXPANSION

Foreign direct investment (FDI) can have a range of positive impacts on host countries, including:

- **Job creation:** FDI can lead to the creation of new jobs in host countries, as foreign firms may need to hire local workers to support their operations.
- **Increased investment:** FDI can bring in significant amounts of capital to host countries, which can help to finance new projects and support economic growth.
- **Technology transfer:** FDI can facilitate the transfer of knowledge and technology from foreign firms

to host countries, which can help to improve productivity and competitiveness.

- **Increased exports:** FDI can help to create linkages between domestic and foreign firms, which can lead to increased exports from host countries.
- **Economic diversification:** FDI can help to diversify host country economies by bringing in new industries and sectors that may not have been present before.
- **Improved infrastructure:** FDI can lead to the development of new infrastructure, such as roads, ports, and power plants, which can support economic growth and development.
- **Improved management practices:** FDI can bring in new management practices and organizational structures that may help to improve the efficiency and effectiveness of local firms.



Figure 2. The Mechanisms of FDI Influence on Host Economies: Direct and Indirect Pathways

FDI can provide important benefits to host countries, particularly in terms of job creation, increased investment, technology transfer, and economic diversification. However, it is important to manage FDI carefully to ensure that it is aligned with the broader economic and social goals of the host country [8].

While foreign direct investment (FDI) can provide a range of benefits to host countries, it can also have ne-

gative impacts, particularly if it is not well-managed. Some potential negative impacts of FDI include:

- **Crowding out local firms:** In some cases, FDI can lead to the displacement of local firms, as foreign firms may be able to offer goods and services at lower prices due to economies of scale, access to cheaper financing, or other advantages [9].
- **Dependency on foreign firms:** Over-reliance on FDI can create a situation where host countries become overly dependent on foreign firms for economic growth, which can leave them vulnerable to economic shocks or changes in global economic conditions [10].
- **Labor market effects:** FDI can lead to job creation in host countries, but it can also lead to wage suppression and poor working conditions, particularly in sectors with low barriers to entry and high competition.
- **Environmental impacts:** FDI can contribute to environmental degradation if foreign firms do not comply with local environmental regulations or if the host country has weak environmental protections.
- **Technological dependence:** While FDI can facilitate the transfer of technology and knowledge, it can also create a situation where host countries become overly dependent on foreign firms for access to advanced technology, which can limit their ability to develop their own technology and knowledge base [11], [12].

Another equally significant negative factor the market-stealing effect of foreign direct investment (FDI) it's a situation where foreign firms enter a new market and take market share away from existing domestic firms, thereby reducing their profits and po-

tentially forcing them out of business. This effect is a common concern for policymakers in host countries, particularly in industries that are dominated by domestic firms.

The market-stealing effect of FDI can be driven by a range of factors, including economies of scale, access to superior technology or management practices, and greater financial resources. When foreign firms enter a new market, they may be able to offer goods and services at lower prices than existing domestic firms, which can lead to a shift in consumer demand and a reduction in market share for domestic firms [13].

However, it is important to note that the market-stealing effect of FDI is not always negative. In some cases, the entry of foreign firms can lead to increased competition and innovation, which can benefit consumers and drive economic growth. Moreover, domestic firms that can adapt to the new competitive environment may be able to improve their own efficiency and competitiveness, leading to long-term benefits for the economy as a whole.

It is a complex issue that requires careful consideration of the specific circumstances in each host country and industry. While it can have negative impacts on existing domestic firms, it can also lead to increased competition and innovation, which can ultimately benefit consumers and the economy as a whole [13].

The market stealing effect of foreign direct investment (FDI) can be observed in various industries and countries.

Automotive industry: In many countries, the entry of foreign automotive companies has led to a reduction in market share for domestic automakers. For example, in India, the entry of foreign companies such as Suzuki and Hyundai led to a decline in market share for domestic automakers like Hindustan Motors and

Premier [14]. Similarly, in Brazil [15], the entry of foreign companies such as Volkswagen, Fiat, and General Motors led to a reduction in market share for domestic automakers.

Retail industry: The entry of foreign retail companies such as Walmart and Carrefour in many countries has led to a reduction in market share for domestic retailers. For example, in Mexico, the entry of Walmart led to a decline in market share for domestic retailers, particularly in the grocery sector [16], [17].

Technology industry: The entry of foreign technology companies such as Apple and Samsung in many countries has led to a reduction in market share for domestic technology firms. For example, in China, the entry of foreign companies such as Apple and Samsung led to a decline in market share for domestic smartphone makers such as Xiaomi and Huawei [13], [16].

It is important to note that the market stealing effect of FDI is not limited to these industries or countries, and can occur in any industry where foreign firms enter a new market and compete with existing domestic firms. The specific impact of FDI on domestic firms will depend on a range of factors, including the competitiveness of existing domestic firms, the nature of the industry, and the regulatory environment in the host country.

LITERATURE REVIEW

There have been numerous empirical studies analyzing the impact of foreign direct investment (FDI) on economic growth in post-communist transition economies. Here are some examples:

A study by Yakubovskiy et al. [18] analyzed the impact of FDI on economic growth in Ukraine. The study found that FDI had a positive impact on economic growth in Ukraine, particularly in the manufacturing and services sectors.

Another study by Balasubramanyam et al. [19] analyzed the impact of FDI on economic growth in Eastern Europe. The study found that FDI had a positive impact on economic growth in Eastern Europe, particularly in countries with more open and liberalized investment regimes.

A study by Chakrabarti [20] analyzed the impact of FDI on economic growth in Central and Eastern Europe. The study found that FDI had a positive impact on economic growth in these countries, particularly in the manufacturing and services sectors.

A study by Aizenman and Noy [21] analyzed the impact of FDI on economic growth in Eastern Europe and Central Asia. The study found that FDI had a positive impact on economic growth in these regions, particularly in the services sector.

A study by Yi et al. [22] analyzed the impact of FDI on economic growth in developing countries. The study found that FDI had a positive impact on economic growth in developing countries, particularly in countries with higher levels of human capital and better investment climates.

The article by Wagener focuses on the political and economic factors that have influenced the economic transformation of the Post-Communist Transition Economies [7]. The authors examine the role of political institutions, economic liberalization, and trade in economic growth and development in these countries.

The book by Janecki, A., and Sługocki, W. [23] provides a comprehensive analysis of the economic and social transformation of Central and Eastern Europe. The book covers the period of transition from communism to a market-based economy, including the economic policies and reforms that were implemented, as well as the social and political changes that occurred during this period.

The World Bank's report, "Transition - The First Ten Years: Analysis and Lessons for Eastern Europe and the Former Soviet Union," [24] provides an analysis of the first decade of economic transition in Eastern Europe and the former Soviet Union. The report examines the economic policies and reforms that were implemented during this period, and assesses their impact on economic growth and development.

The United Nations Development Programme's focuses on the challenges and opportunities for human development in the Anthropocene era. The report examines the impact of environmental degradation and climate change on human development, and provides recommendations for policies and actions that can promote sustainable human development [25].

The article by Fu et al. [26] discusses how improved management practices can contribute to the success of multinational enterprises (MNEs) and the global economy.

METHODOLOGY

The methods through which the host economy may reap the benefits of foreign direct investment in the economic development of post-com-

unist transition economies include both direct and indirect channels.

Direct channels involve FDI firms transferring knowledge, technology, and management practices to domestic firms through linkages, such as joint ventures, subcontracting, and supplier relationships. FDI firms can also improve the quality of human capital by providing training and higher wages, thereby enhancing the skills of the domestic workforce.

Indirect channels involve the creation of spillover effects, such as increased competition, which can lead to greater efficiency and productivity gains in domestic firms. FDI can also generate positive externalities by providing access to global networks, promoting innovation, and contributing to the development of industry clusters.

In addition to these channels, host economies can also benefit from FDI by implementing policies that encourage linkages between domestic firms and FDI firms, by promoting technology transfer and innovation, and by enhancing the overall investment climate.

Table 1. Methods through which the host economy may reap the benefits of foreign direct investment

Channels for FDI Spillovers	Definition
Labor market	The transfer of skills and knowledge from foreign workers to domestic workers, as well as the creation of new jobs
Competition	Increased competition leads to higher efficiency and productivity, as well as lower prices for consumers
Local suppliers	The development of local supply chains, which can lead to technology and knowledge transfer, as well as increased quality and quantity of inputs
Technological transfer	The transfer of technology, knowledge, and innovation from foreign firms to domestic firms, which can lead to improvements in productivity and efficiency
Management practices	The transfer of best practices in management, such as organizational and operational methods, can lead to improvements in efficiency and productivity

Export opportunities	Increased access to foreign markets, as well as new knowledge and skills related to exporting, can lead to increased exports and economic growth
Infrastructure	Foreign firms may invest in infrastructure, such as transportation, energy, and communication systems, which can benefit the host economy by improving efficiency and connectivity

Some additional channels for FDI spillovers [8] include:

- Competition and technology transfer: FDI can increase competition in the host country, forcing local firms to become more efficient and adopt new technologies in order to remain competitive.
- Upgrading of human capital: FDI can lead to the transfer of knowledge and skills to local employees, which can improve their productivity and lead to the development of a more skilled workforce.
- Development of supply chains: FDI can lead to the development of local supply chains, as local firms become suppliers to the foreign firms. This can increase the efficiency of the host country's economy and make it more competitive.
- Development of infrastructure: FDI can lead to the development of new infrastructure in the host country, such as roads, ports, and telecommunications. This can improve the overall business environment and attract more investment.
- Environmental standards: FDI can lead to the introduction of higher environmental standards in the host country, as foreign firms often have to comply with stricter environmental regulations in their home countries. This can lead to a reduction in pollution and an improvement in environmental quality.

(1)

It is a measure of the amount of capital inflow from foreign investors that exceeds the domestic savings of the host country. This formula is useful because it allows us to understand

the role of FDI in financing the investment needs of a country, particularly in situations where domestic savings are insufficient to support the required level of investment [27].

By subtracting domestic savings from the total amount of investment, we get an estimate of the gap that needs to be filled by foreign capital. This formula is important because it helps policymakers to understand the role of FDI in a country's economic development and the extent to which it is contributing to economic growth. Additionally, it helps to identify the sectors that are most attractive to foreign investors, which can inform policy decisions on promoting foreign investment.

In estimating the impact of FDI on economic growth using regression analysis, a common approach is to use a basic augmented production function [3]. The equation for such a production function can be expressed as:

(2)

where Y is real gross domestic product (GDP), K is capital stock, L is labor input, H is human capital, T is a measure of technology, FDI is foreign direct investment, and ϵ is an error term.

To estimate the impact of FDI on economic growth, the coefficient of FDI (β_{FDI}) is estimated using the regression model:

(3)

where α is the intercept term and β are the coefficients of K , L , H , T , and FDI , respectively.

Gravity model:

where FDI is the amount of foreign direct investment, A is a constant, "GDP_i" and "GDP_j" are the gross domestic products of the investing and host countries, respectively, "D^b_{ij}" is the distance between the two countries, and b is a parameter that measures the importance of distance and "b" refers to the coefficient that captures the effect of distance between two countries on their bilateral trade.

Various econometric techniques can be used to estimate the regression model and measure the impact of FDI on economic growth. For example, ordinary least squares (OLS) regression can be used to estimate the coefficients of the explanatory variables, and statistical tests such as t-tests and F-tests can be used to assess the significance of the estimated coefficients. Additionally, instrumental variable regression can be used to address endogeneity issues that may arise in the estimation of the model.

Foreign Direct Investment (FDI) typically includes three components:

1. **Equity Capital:** This refers to the investment made by foreign investors to acquire shares in a company or establish a new company in the host country. It includes both the initial investment and subsequent investment in the form of additional capital.
2. **Reinvested Earnings:** This refers to the portion of earnings that is reinvested in the foreign affiliate, rather than repatriated to the investor's home country. Reinvested earnings are typically used for expanding business operations, purchasing new equipment, or funding research and development.
3. **Intra-Company Loans:** These are loans provided by the parent company to its foreign affiliate. Intra-company loans are used for various purposes such

as financing working capital requirements, investment in fixed assets, and R&D.

By adding up these three components of FDI, we can determine the total amount of foreign investment that is flowing into an economy.

(5)

Human capital is reasonable in the context of foreign direct investment (FDI) because it can be seen as an important factor in attracting and retaining foreign investment. Companies that invest in a foreign country are likely to look for a skilled workforce, and the availability of skilled labor may be a critical factor in their decision to invest in a particular location. In addition, human capital is an important driver of economic growth and development, and FDI can play a role in supporting the development of human capital in the host country. Therefore, measuring indicators of human capital can provide insight into the potential for FDI to contribute to the long-term growth and development of a country.

(6)

Education: Refers to the formal education and knowledge acquired through schooling or other structured learning programs, including primary, secondary, and tertiary education.

Training: Refers to the acquisition of specific skills or knowledge necessary for a particular job or task. This can be acquired through on-the-job training, apprenticeships, or other vocational training programs.

Health: Refers to the physical and mental well-being of individuals, which can have a significant impact on their productivity and ability to participate in the workforce. This includes factors such as access to healthcare, nutrition, and a safe working environment.

Experience: Refers to the knowledge and skills that individuals acquire through work experience over time. This can include both formal and informal learning, and can be a significant factor in determining an individual's productivity and earning potential.

Formulas and models that can be used to analyze FDI and choice of model will depend on the specific research question and data available.

There are several methods of panel data estimation that can be appropriate for analyzing the relationship between FDI and economic growth in panel data. Some of the commonly used methods include fixed effects, random effects, and difference-in-differences. The fixed effects method is useful when there are unobserved heterogeneities across different groups of the panel data. It controls for the time-invariant factors that affect the outcome variable in each unit of the panel, and it estimates the coefficients of the time-varying variables [28]. The random effects method assumes that the unobserved heterogeneities are random and uncorrelated with the independent variables. It estimates the coefficients of the time-varying variables, but it does not control for the time-invariant factors.

The difference-in-differences method is useful when there is a natural experiment that allows us to compare the treatment and control groups over time. It estimates the treatment effect by comparing the changes in the outcome variable between the treatment and control groups before and after the treatment [29].

The appropriate method of panel data estimation depends on the research question, the data structure, and the assumptions of the model. It is important to choose the method that best suits the research question and the data structure to obtain reliable and valid results. The appropriate method of panel data estimation de-

pends on the nature of the data and the research question being addressed. Some common methods for panel data analysis include fixed effects models, random effects models, and first difference models [30].

Fixed effects models are suitable when there are unobserved time-invariant heterogeneities among the entities in the panel. This method is often used to control for unobserved individual effects and is suitable for studying the impact of a particular variable on the dependent variable over time [31].

Random effects models are suitable when the unobserved time-invariant heterogeneities are assumed to be random. This method allows for estimation of the variance of the individual effects, and it is appropriate when the researcher is interested in examining the average impact of a variable across different entities.

First difference models are suitable when the researcher is interested in analyzing the change in the dependent variable over time, and they are useful when the data contains significant individual heterogeneity that can be controlled through the first differencing.

Ultimately, the choice of the appropriate panel data estimation method depends on the specific research question being addressed and the assumptions that can be made about the underlying data.

THE COUNCIL FOR MUTUAL ECONOMIC ASSISTANCE

The Council for Mutual Economic Assistance (COMECON) was an organization of several communist countries in Europe and Asia, established in 1949 and dissolved in 1991, under the leadership of the Soviet Union. The primary purpose of COMECON was to promote economic cooperation and development among its member countries, and to facilitate the trade of goods and

services among them. The organization was a response to the Marshall Plan, which provided economic aid to Western European countries after World War II, and was part of the larger Cold War rivalry between the capitalist West and the communist East. Countries that were part of COMECON included the Soviet Union, East Germany, Poland, Hungary, Romania, Bulgaria, Czechoslovakia, Mongolia, and Vietnam.

The results of the Council for Mutual Economic Assistance (COMECON) were mixed. On the one hand, the organization helped to promote economic cooperation and development among its member countries, and facilitated the trade of goods and services among them. COMECON provided a framework for economic planning and coordination, which was seen as essential to the development of a socialist economy. In addition, the organization helped to promote the industrialization and modernization of its member countries, through the transfer of technology and expertise.

However, on the other hand, COMECON suffered from a number of weaknesses and inefficiencies. The organization was often criticized for being overly bureaucratic and inflexible, and for failing to respond to changing economic conditions. In addition, the quality of goods produced by COMECON countries was often lower than those produced by Western countries, which made it difficult to compete in international markets. Finally, the collapse of the Soviet Union in 1991 led to the dissolution of COMECON, and the economic and political disintegration of many of its member countries.

Overall, the results of COMECON were mixed. While the organization helped to promote economic cooperation and development among its member countries, it also suffered from a number of weaknesses and inefficiencies, which contributed to its eventual collapse.

Foreign direct investment (FDI) contributed to economic growth in

post-Comecon countries that moved from communism. Following the collapse of communism, Poland attracted significant amounts of FDI from Western Europe and the United States. This FDI played a key role in driving economic growth, particularly in the manufacturing sector. For example, the entry of foreign automakers such as Volkswagen and General Motors led to the development of a strong automotive industry in Poland, which has become a key driver of the country's economic growth.

The Czech Republic also attracted significant amounts of FDI following the collapse of communism. This FDI helped to modernize the country's economy and drive growth in key sectors such as automotive manufacturing, electronics, and software development. For example, the entry of foreign companies such as Siemens and Samsung helped to promote the development of a strong high-tech sector in the country.

Like Poland and the Czech Republic, Hungary attracted significant amounts of FDI following the collapse of communism. This FDI helped to drive growth in key sectors such as automotive manufacturing, pharmaceuticals, and electronics. For example, the entry of foreign companies such as Audi and GE helped to promote the development of a strong automotive and electronics industry in Hungary.

As we can see by attracting foreign investment and promoting the development of key industries, these countries were able to modernize their economies and promote growth, which has helped to improve the standard of living for their citizens.

RESULTS

Several countries that were part of the Post-Communist Transition Economies (PCTEs) have made significant progress in terms of economic development and growth, while others have faced more challenges. Central and Eastern Europe, such as Poland, Czech Republic, Hungary, and Slovakia, have made significant

progress in terms of economic liberalization, privatization, and market-oriented reforms. These countries have attracted significant amounts of foreign direct investment (FDI) and have experienced high levels of economic growth in recent years.

Figure 3. Institutional Quality as a Magnet for FDI: Enhancing Economic Growth

In contrast, other countries in the



PCTEs, such as Ukraine, Moldova, and Belarus, have faced more challenges in terms of economic development and growth. These countries have struggled with political instability, corruption, and weak institutions, which have made it more difficult to attract FDI and to achieve sustainable economic growth.

Despite these challenges, however, many of the countries in the PCTEs have made progress in terms of economic development and integration into the global economy. For example, many of these countries have joined the European Union (EU) and have benefited from increased trade and investment flows with other EU member states. In addition, many of these countries have implemented policies aimed at improving the investment climate and attracting FDI, such as tax incentives, regulatory reforms, and investment promotion agencies.



Figure 4. From Evidence to Action: Policy Pathways for Leveraging FDI in Post-Communist Economies

There are several methods that can help attract foreign direct investment (FDI) and promote economic development in post-Communist transition economies (PCTEs):

- Improving the investment climate: PCTEs can implement policies aimed at improving the investment climate, such as simplifying regulations, reducing bureaucratic barriers, and ensuring transparency in government procedures. This can help to reduce uncertainty for investors and make it easier for them to do business in these countries.

- Developing infrastructure: Developing infrastructure such as transportation, communication, and energy systems can help to improve the business environment in PCTEs, making it more attractive for foreign investors. For example, improving transportation infrastructure can help to reduce transportation costs and improve access to markets, while improving energy infrastructure can help to reduce energy costs and ensure a reliable supply of electricity.

- Promoting human capital development: PCTEs can invest in education and training programs to improve the skills of their workforce. This can help to improve the productivity and competitiveness of local firms and make it more attractive for foreign investors to do business in these countries.

- Offering tax incentives: PCTEs can offer tax incentives such as redu-

ced corporate tax rates, investment tax credits, and exemptions from import duties. These incentives can help to lower the cost of doing business in these countries and make them more attractive for foreign investors.

- Developing special economic zones: PCTEs can establish special economic zones (SEZs) that offer preferential treatment to foreign investors, such as tax holidays, streamlined regulatory procedures, and access to specialized infrastructure. SEZs can help to attract foreign investment and promote economic development in specific regions of these countries.

Implementing these methods can help PCTEs to attract foreign direct investment and promote economic development in these countries. However, it is important to ensure that these policies are implemented in a way that is sustainable and beneficial for both local firms and foreign investors.

FDI externalities, also known as FDI spillovers, refer to the positive effects that foreign direct investment (FDI) can have on the host country's economy beyond the direct impact of the investment on the recipient firm. These spillover effects can be both horizontal and vertical. Horizontal spillovers occur when FDI stimulates the growth of local firms in the same industry through knowledge and technology transfer, better access to inputs, and increased competition. Vertical spillovers occur when FDI affects other sectors of the host country's economy by creating new industries, improving infrastructure, and upgrading human capital. FDI externalities can lead to increased productivity, employment, and exports in the host economy, as well as improvements in the quality of products and services, environmental and social standards, and innovation capacity. However, the size and direction of FDI spillovers can depend on a range of factors, such as the level of develop-

ment and absorptive capacity of the host economy, the characteristics of the recipient firms and their interactions with local firms, and the nature and extent of linkages between the foreign and domestic sectors.



Figure 5. The Spillover Effects of FDI on Innovation and Competitiveness

After the collapse of the Soviet Union, many governments and businesses in the post-Soviet era were expecting a flood of western FDI to help spur economic development and modernization. For example, the Russian government established the Foreign Investment Advisory Council to encourage foreign investors to come to Russia and created special economic zones to provide favorable investment conditions. Similarly, countries like Ukraine, Kazakhstan, and Uzbekistan also actively sought FDI through various incentives and economic reforms.

However, the actual level of FDI that came to these countries was much lower than anticipated, and the impact on economic development was mixed. Some industries, such as energy and telecommunications, saw significant levels of FDI, while others, such as manufacturing and agriculture, were largely ignored. In some cases, FDI inflows led to increased economic growth and technological transfer, while in other cases, they were associated with negative consequences such as asset stripping, corruption, and environmental degradation.

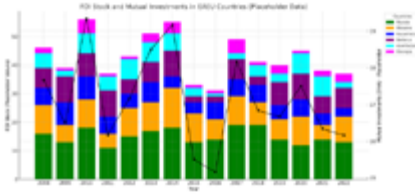


Figure 6. The mutual stock of foreign direct investment in the smaller member country of the Eurasian Economic Union (EEU)

Overall, the experience of post-communist transition economies highlights the importance of a favorable investment climate, effective governance, and careful management of FDI inflows to achieve sustainable economic development

DISCUSSION

There is widespread agreement on the significance of foreign direct investment (FDI) in the economic development of post-communist transition nations. The article shows that FDI's provision of money, technological advancement, and knowledge transfer has been crucial to expanding and improving economies in the wake of communism.

The analysis agrees with other studies that stress the significance of FDI in fostering economic growth. Many studies have shown that FDI inflows boost economic growth, employment, and productivity [32]. Inflows of FDI may boost domestic investment, increase competition, and optimize resource allocation [28]. By concentrating on post-communist transition countries and examining the variables that affect FDI inflows, our study adds to this body of knowledge.

The article suggests that the host country's laws and institutions, as well as its human capital, infrastructure, and business climate, all play a role in the success of foreign direct investment (FDI) in post-communist transi-

tion economies. This study confirms the findings of other papers., which have demonstrated the importance of these factors in enticing FDI [33],[32], [22]. However, our study also needs to include the particular difficulties post-communist transition economies confront, such as a lack of resources and infrastructure.

The relevance of policies and institutions in fostering FDI inflows and ensuring that FDI contributes to sustainable and inclusive economic growth and development is highlighted in this study. Our research indicates that efforts should be made to strengthen the investment environment, lower transaction costs, increase human capital, and encourage technology transfer and innovation. Our study is consistent with earlier research highlighting the significance of policies that favor FDI inflows [34], [35]. Our study also emphasizes the need for measures that lessen the impact of FDI on the social and environmental quality of life.

It contributes to the corpus of knowledge by highlighting the importance of FDI in the setting of post-communist transition countries. Weak institutional frameworks and restricted access to finance and technology were two main obstacles these countries encountered as they transitioned from a planned to a market economy [36]. Foreign direct investment (FDI) inflows have been critical to these nations' economic growth and development by facilitating money transfer, technology, and expertise. Our results are consistent with other studies that have stressed the significance of FDI inflows in post-communist transition countries [33], [37], [38].

The study also emphasizes the difficulties experienced by post-communist transition economies in attracting and keeping foreign direct investment. Weak institutional structures, corruption, and political instability are

some problems. Our study aligns with other studies that have shown these problems to be significant roadblocks to FDI inflows [33], [36]. Governments must overcome these obstacles to guarantee that FDI inflows promote long-term, broadly shared economic growth and development.

Lastly, our study highlights the significance of international collaboration and coordination in fostering FDI inflows in post-communist transition countries. Our research shows that if a country wants to attract and keep foreign direct investment (FDI), it has to foster an environment conducive to investment, strengthen its human capital, and encourage the sharing and development of new technologies. International organizations and wealthy nations may play a crucial role in bolstering these policies by offering technical help, advocating for trade and investment liberalization, and offering financial support.

The article suggests that governments in post-communist transition economies should keep wooing foreign direct investment (FDI) as a source of money, technology, and know-how transfer. They should improve the business climate, lower transaction costs, and provide a qualified workforce to attract investors. The long-term effectiveness of FDI in these countries also depends on authorities encouraging innovation and technology transfer.

However, governments should also be aware of the hazards of FDI, such as environmental deterioration and social inequity. Authorities may lessen the impact of these threats by enforcing environmental and social standards, supporting ethical business practices, and welcoming foreign direct investment (FDI) in industries that will positively impact the local economy. Moreover, governments should place a premium on human capital and infrastructure expenditures since they are essential for attracting and keeping FDI.

Our findings contribute to the corpus of knowledge on international investment in several ways. To begin, we concentrate on post-communist transition economies, which have gotten very little attention in the literature on FDI. Second, we examine the role of FDI on economic development from many angles, such as GDP growth, structural change, and globalization. Finally, we provide a sophisticated study of the variables that influence the success of foreign direct investment in these countries.

Our results are consistent with previous research on foreign direct investment (FDI) in underdeveloped nations, demonstrating that FDI may boost economic growth and development. The significance of country-specific elements in determining the effect of FDI is also highlighted in our study. Our research also suggests that nations with advanced infrastructure and high levels of human capital are more likely to benefit from foreign direct investment (FDI).

Overall, our study emphasizes the potential advantages of FDI for post-communist transition countries while stressing the need for adequate policies and institutions to ensure that FDI contributes to sustainable and equitable economic growth and development. Not with the dangers associated with the foreign direct investment (FDI), policymakers in these economies should continue recruiting and maintaining FDI.

CONCLUSION

Foreign direct investment (FDI) has played a crucial role in the economic growth of post-communist transition countries by facilitating access to money, technology, and knowledge transfer. Growth, structural change, and participation in the global economy have all been influenced by this. FDI has also had beneficial spillover effects on local enterprises, leading to greater job possibilities, higher productivity, and more innovation.

Foreign direct investment (FDI) may be suitable for a country's economy, but this is only sometimes the case. It depends on the host country's laws, institutions, infrastructure, and business climate. Hence, in order to attract and keep FDI, governments should work to improve the investment environment, reduce transaction costs, strengthen the human resource base, and encourage knowledge transfer and innovation.

Policymakers must also consider the adverse effects of foreign direct investment (FDI), such as the displacement of native enterprises, environmental damage, and social inequality, and take steps to reduce these risks. For instance, laws may be put in place to prevent the displacement of native enterprises by foreign firms and to guarantee that foreign investors adhere to environmental and social norms.

In addition, the right policies and institutions are crucial for making sure that FDI helps post-communist transition economies expand and develop in a way that benefits everyone. Finding a middle ground between luring foreign investment and safeguarding home businesses and people is necessary. Policymakers must monitor and take into account the effect that FDI has on the economy of the nation that receives it.

In conclusion, foreign direct investment (FDI) may be a potent weapon for fostering economic growth in nations emerging from communism. To guarantee that FDI contributes to inclusive and sustainable economic growth and development, authorities must establish the right policies and institutions.

Moreover, the experience of post-communist transition economies implies that FDI should be considered as a supplement rather than a replacement for local investment. Foreign direct investment (FDI) may supplement local investment in a country's

productive capacity and economic development by providing access to money and technologies that would not otherwise be accessible. Consequently, local investment and entrepreneurship promotion policies should be implemented alongside FDI attraction policies.

Foreign direct investment's (FDI) impact on economic growth extends beyond the financial sector. The distribution of power, income, and social norms in the host nation may be impacted by FDI's political and social repercussions. Political upheaval, corruption, and social discontent have sometimes been linked to foreign direct investment (FDI). Hence, policymakers must consider the more significant effects of FDI on the host nation's political and social climate and ensure that FDI contributes to the country's long-term development objectives and ideals.

Ultimately, the COVID-19 epidemic has presented new problems and possibilities for post-communist transition nations hoping to attract investment. The epidemic has sped up the digitization process and highlighted the significance of technology and innovation in driving economic growth. Hence, in order to attract investment in high-tech industries, post-communist transition countries should concentrate on strengthening their digital infrastructure and capabilities. The epidemic has also brought attention to the need for resilience and diversity in global value chains, opening doors for post-communist transition countries to draw investment in new industries and lessen their reliance on a particular market or product.

In conclusion, foreign direct investment (FDI) has been crucial to the growth of post-communist transition economies, although its effects have varied widely by country and industry. Measures to entice FDI should be supported with efforts to encourage domestic investment, improve the investment environment, and lessen

the possible adverse effects of FDI. Policymakers should also guarantee that FDI contributes to the long-term development objectives and values of the host nation, as well as the larger ramifications of FDI on the political and social environment. Lastly, post-communist transition nations should improve their digital infrastructure, encourage innovation, and diversify their economies to attract investment in new areas so that they can take advantage of the new possibilities and challenges posed by the COVID-19 pandemic.

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