# The Effects of Migration and Remittances on Economic Development in Egypt

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# Abstract

This piece delves at how migration and remittances have affected economic growth in Egypt, a large nation in North Africa and the Middle East with a rich history of both. According to the World Bank figures used in this article, in 2020 Egypt received an anticipated \$29.6 billion in remittances, which is equal to 8% of its GDP. The article also summarises the research on how migration and remittances have helped or hurt the economies of countries of origin in terms of poverty reduction, human capital development, and overall economic growth. To further evaluate the impact of PR on FDI, IT, and the article itself, the authors employ a vector autoregression (VAR) model. A positive and substantial effect of PR on PR is found, as is a negative and significant effect of PR on FDI, but no significant effect of PR on IT is found. The essay concludes that policymakers in Egypt should take a balanced and context-specific approach to maximising the advantages and minimising the costs of migration and remittances due to their complicated and varied effects on economic growth.

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# Background

Migration to and from Egypt, a large country in North Africa and the Middle East, has a long and storied past. The World Bank estimates that in 2020, Egypt received \$29.6 billion in remittances, which is equivalent to 8% of its GDP. Foreign currency and income from remittances are important to many Egyptian households, particularly those in rural regions. Positive benefits of remittances on poverty alleviation, human resource growth, and GDP expansion have been observed in Egypt (Elorabi et al., 2023).

The effects of migration and remittances on economies are intertwined and significant. Migration is the process of individuals crossing international borders for reasons such as seeking employment, furthering their education, relocating to be closer to family, or seeking safety from persecution. Remittances are the monetary or material transfers that migrants make back to their home countries, either formally through banks or money transfer providers or informally through friends or family (Masuduzzaman, 2014; Prabowo, Sasongko, & Damayanti, 2022). In 2020, 3.6% of the world's population, or 281 million people, were estimated to be migrants, according to the World Bank1. The United States, Germany, Saudi Arabia, Russia, and the United Kingdom were the top five countries where migrants settled down after leaving their home countries. India, Mexico, China, Russia, and Syria are among the top five countries from which foreign migrants originated. According to the World Bank,

by 2020, remittance flows to low- and middle-income countries would have reached \$540 billion, making them the largest source of external finance, exceeding both foreign direct investment and government development aid. Indians, Chinese, Mexicans, Filipinos, and Egyptians all ranked high as remittance recipients (Barnett & Nam, 2023).

The effects of migration and remittances on economic development can be analyzed from both the origin and destination perspectives. From the origin perspective, migration and remittances can have positive and negative effects on economic development (Widarni, Irawan, Harnani, Rusminingsih, & Alim, 2022). On the positive side, migration and remittances can increase income and consumption, reduce poverty and inequality, improve health and education outcomes, promote human capital development, stimulate entrepreneurship and innovation, and foster economic growth (Quisumbing & McNiven, 2020). On the negative side, migration and remittances can cause brain drain and skill loss, reduce labor supply and productivity, create dependency and moral hazard, increase inflation and exchange rate appreciation, distort resource allocation and sectoral composition, and undermine social cohesion and political stability (Abduvaliev & Bustillo, 2020). From the destination perspective, migration and remittances can also have positive and negative effects on economic development. On the positive side, migration and remittances can increase labor supply and diversity, enhance productivity and innovation, fill skill gaps and labor shortages, boost demand and consumption, and contribute to fiscal revenues and social security. On the negative side, migration and remittances can cause job competition and wage depression, increase unemployment and informality, create fiscal costs and social tensions, and generate cultural and security challenges (Clemens et al., 2018).

The net effects of migration and remittances on economic development depend on various factors, such as the size, composition, direction, and duration of migration and remittance flows; the characteristics and behavior of migrants and remittance senders and receivers; the policies and institutions of origin and destination countries; and the global and regional context. Therefore, there is no one-size-fits-all answer to whether migration and remittances are good or bad for economic development. Rather, there is a need for a nuanced and evidence-based analysis of the costs and benefits of migration and remittances for different countries and regions (Bucevska, 2022).

The World Bank provides data and analysis on various indicators of migration and remittances, such as net migration rate, remittance inflows and outflows, migrant stock, and diaspora network. The World Bank also provides support and advice to its clients and partners to enhance their migration and remittance performance and potential (Ratha et al., 2016).

# **Research Method**

We proxied Adjusted Foreign direct investment variable, with the International tourism variable. For the Personal remittances variable. We use secondary data from the world bank. Our research period is from 2005 to 2020. We use the following equation:

PRt	$= \beta_0 + \beta_1 FDI_t + \beta_2 IT_t + e_t$	eql 1
FDIt	$= \beta_0 + \beta_1 P R_t + \beta_2 I T_t + e_t$	eql 2
IT <sub>t</sub>	$= \beta_0 + \beta_1 P R_t + \beta_2 F D I_t + e_t$	eql 3

Description:

PR : Personal remittances

FDI : Foreign direct investment

IT : International tourism

 $\beta$ : the magnitude of the effect of causality

e = Error term

t = Time period

eql: equation

Variable	Explanation	Data type	Source
Personal remittances	Remittances from	Percent	World Bank
	individuals include		
	both salary and other		
	forms of employee pay.		
	All current monetary		
	and nonmonetary		
	payments made or		
	received by a resident		
	household from a		
	nonresident home are		
	considered personal		
	transfers. Thus, any		
	recent monetary		
	transactions between		
	residents and foreign		
	nationals are		
	considered personal		
	transfers. Workers who		
	are not permanent		
	residents of the country		
	where they are		
	employed (such as		
	seasonal or temporary		
	workers) and citizens		
	of that country who are		
	hired by businesses		
	based in another		
	country are said to get		
	"compensation of		
	employees." Personal		
	transfers and employee		
	remuneration are added		
	together to provide the		
	data, as stated in the		
	sixth edition of the		
	IMF's Balance of		
	Payments Manual.		

#### Table 1. Variable Description

Foreign direct	FDI refers to the net	Percent	World Bank
investment	inflow of capital used	1 croom	V on Dunk
	to acquire a controlling		
	stake (ten percent or		
	more of the voting		
	shares) in a company		
	based in a country other		
	than the investor's		
	home country. As		
	represented in the		
	balance of payments, it		
	is the total of equity		
	capital, reinvested		
	earnings, other long-		
	term capital, and short-		
	term capital. When		
	divided by GDP, this		
	series depicts the net		
	inflows (new		
	investment inflows		
	minus disinvestment)		
	of foreign investors		
	into the economy		
	reporting the data.		
International tourism	Payments made to	Percent	World Bank
	national airlines for		
	foreign travel are		
	included in		
	international tourist		
	receipts. Any		
	additional payments		
	paid in advance for		
	items or services to be		
	received in the final		
	country are also		
	considered receipts.		
	Same-day visitors'		
	receipts are also		
	included unless they		
	are particularly		
	noteworthy and		
	warrant being		
	categorised differently.		
	In other nations,		
	invoices for transport		
	services are not		
	included. Their		
	percentage of exports is		
	determined relative to		
	total exports, which		

include all sales of	
goods and services	
between domestic	
consumers and foreign	
buyers, as well as all	
transfers of ownership	
of goods and services	
from domestic	
consumers to foreign	
buyers.	

## **Result and Discussion**

Table 2. Root Test Results				
Variabel	Unit Root	Statistics for the	Probability	Description
		Augmented		
		Dickey Fuller		
Personal	Level	-1.678675	0.4211	Tidak Stationary
remittances (PR)	First Different	-3.515376	0.0293	Stationary
Foreign direct	Level	-4.021583	0.0118	Stationary
investment (FDI)	First Different	-3.676356	0.0180	Stationary
International	Level	-2.543326	0.1257	Tidak Stationary
tourism (IT)	First Different	-3.990689	0.0103	Stationary

\*the limit value used at the significance level of 0.05

Based on the findings shown on Table 2. The fact that PR, FDI, and IT stationary data are not at the same level, so that the first differencing is put into action. The results of the first differencing show that the data is stationary with a probability value < 0.05. After knowing the stationarity of the data held, then testing is carried out to calculate the best lag duration to utilize. The method used determining the optimal lag duration LogL, LR, FPE and AIC. The smaller the value of LogL, LR, FPE, AIC, the lag is the most optimum lag. The outcomes of the test are shown on the next table

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Lag	LogL	LR	FPE	AIC
0	-109.0392	NA	617.4020	14.93856
1	-93.56144	22.70068*	270.6588*	14.07486*

Table 3. Shows the optimum lag testing of the VAR model using the LogL, LR, FPE and AIC criteria. Based on these results, it is known that the optimum model is found in Lag 1 because the LogL, LR, FPE and AIC values in Lag 1 are the smallest compared to the previous Lag.

Hypothesized at	Eigenvalue	Trace Statistic	0.05 Critical	Probability
Most			Value	
None	0.511549	10.74775	21.13162	0.6724
1	0.223636	3.797015	14.26460	0.8801

Table 4.	Cointegration	Test
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2	0.106543	1.689848	3.841466	0.1936
			051 1	

\* Max-eigenvalue test indicates no cointegration at the 0.05 level

The cointegration test results are shown in table 4 above explain that all probability value is above 0.05. It means all the probabilities are not significant. Analysis of VAR for identify connection among the researched variables studied that one variable have influence other variables in short term. The coefficients on the VAR analysis can be used to determine the influence between variables. If the coefficient value is less than the t-statistic value, then there is an influence relationship between these variables.

	D(PR)	D(FDI)	D(IT)
D(PR(-1))	0.752887	-0.176232	0.936060
	(0.39781)	(0.27186)	(1.43133)
	[ 1.89260]	[-0.64826]	[ 0.65398]
D(FDI(-1))	0.063332	0.908780	-0.696476
	(0.28342)	(0.19368)	(1.01975)
	[ 0.22346]	[ 4.69208]	[-0.68299]
D(IT(-1))	-0.133023	-0.092695	-0.031376
	(0.11242)	(0.07683)	(0.40450)
	[-1.18324]	[-1.20652]	[-0.07757]
С	4.802362	3.285095	17.37244
	(3.43805)	(2.34952)	(12.3703)
	[ 1.39683]	[ 1.39820]	[ 1.40437]

#### **Table 5.** VECM Estimation Results

Considering what the VAR analysis revealed, could be said that relationship between PR and PR has a positive significant impact because the coefficient value's at 0.752887, less than the 1.89260 t-statistic's value. Significant correlation exists between PR and FDI, meaning that the two variables related to each other because the coefficient value is at -0.176232 less than the -0.64826 t-statistic value. The non significant correlation finally found exists between PR and IT, because the coefficient value is at 0.936060 more than the 0.65398 t-value statistic.

### Conclusion

When PR improve, PR improves again. The impact is significant at the 5% level since the coefficient value, 0.752887, is smaller than the t-statistic value, 1.89260. The VAR analysis also reveals that public relations has a negative and statistically significant effect on foreign direct investment. The effect is significant at the 5% level of statistical significance since the coefficient value of -0.176232 is smaller than the t-statistic value of -0.64826. There is no obvious connection between public relations and information technology, as shown by the VAR analysis. The impact is not statistically significant at the 5% level since the coefficient value, 0.936060, is greater than the t-statistic value, 0.65398.

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