Remittances as an Instrument of Economic Development in Egypt: Exploring the Impact of Remittances, Export, and Official Development Assistance on Economic Growth

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What role do remittances have on the home country?

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Fears Regarding Remittances	Optin
Remittances do not lead to productive investment but fuel consumption.	Micro-le standard people o 2003b) a Macro-le effects t and Arn
Distribution of remittances is uneven and increases income and wealth inequalities.	Remittar developr
Remittance expenditures may result in inflation.	Price ga higher-p
Remittances may increase dependency with the risk of sudden decline.	Labor ex carefully
Remittances adversely affect agricultural development by removing incentives to labors	Decline i through Arnold 1

nism Regarding Remittances

evel: non-productive investments and consumption improves d of living and quality of life (Stahl & Arnold 1986). Can sustain over in times of crisis (Van Hear, cited in Østergaard-Nielsen and help diversify household risks.

evel: consumption increases demand, producing multiplier that stimulate home-country industries and economies (Stahl old 1986).

nce income is more evenly distributed than both overseas ment aid and foreign direct investment (Hugo 2003).

ins are mitigated by the allocation of resources to production of oriced goods (Stahl and Arnold 1986).

xport should be seen as any other export sector which must be y managed to avoid dependence (Keely and Tran 1989).

in agricultural productivity is due to loss of labor power emigration, not complacency amongst workers (Stahl and 1986).



This paper examines the long-run causal link between remittances and output in Egypt for the period 1977-2020. The long-run causal link is examined using the autoregressive distributed lag (ARDL) bounds test for cointegration, along with a vector error-correction model to estimate the short and long run parameters of equilibrium dynamics.

Migrant's Remittances and Causal Macroeconomics Relation in Egypt: Empirical Analysis 1977 to 2020



- first difference
- ARDL model can be specified: having a combination of variables with I(0) and I(1) order of integration.
- short run and long run ECM model (ARDL) is efficient for small sample and unbiased estimator.

• ARDL Model uses a combination of endogenous and exogenous variables unlike the VAR model that is strictly endogenous variables • The ARDL Model is specified if the variables are stationary after the

• Test for unit root to confirm that no variable is integrated of order 2

If the variables are integrated of different orders. That is, a model

From the Bounds test if the variables are cointegrated, specify for

Bounds Test

Table 2 Critical values for bounds test	
Estimated statistics	
Model ARDL (4,0,4,4)	F-statistics
	8.78
Bounds calculated by Pesaran and Narayan	
	Persarran et al. 2001
Significance level	I(0) Bound
10% 5% 1%	3.47 4.01 6.23

Degree of freedom	
40	

I(1) Bound	
4.45	
5.07	
7.74	



Model Equation: lnGDP = (2.1934* lnEXPO + 0.1640* lnREM - 0.0784* lnODA)**p**-value (.005)(800.)(.36)

The coefficients of the independent variables are the long-run elasticities of the GDP with respect to each independent variable. The elasticity of Y with respect to X. Expo = 2.19 which implies that one percent increase in Y would increase X by 2.19% similarly the elasticity of GDP with respect to lnRem is .16 while the Elasticity of GDP with respect to InODA is -.08 the fact that both remittances and exports are positive informs about the relationship as an increase in the Egyptian GDP because it creates a multiplier effect through goods and labor markets.

Model Equation:

Table 3 Estimated long-run ECM ARDL model

Model: ARDL (4, 0, 4, 4) Sample 1977-2020 Dependent Variable ∆InGDP Independent Variables Δ Inexpo Δ InRem ∆InODA

C	19 96374***
	Ω
	0.000023
	0.000005
$\Delta (LRGDP_{t-2})$	0.093985
Δ (LRGDP _{t-3}	0.62576
$\Delta LRREM_{t-3}$	-0.034175***
$\Delta LRREM_{t-1}$	-0.214544***
$\Delta LRREM_{t-2}$	0.055961
ΔLRREM _{t-3}	-0.170875***
Δ LRODA _t	0.045636***
Δ (LRODA _{t-1}	0.061778***
$\Delta \ln RODA_{t-2}$	0.076557***
∆InRODA _{t-3}	0.046283
DUMMY	0.023858
CointEq _{t-1}	-0.695908***
	The Medal mare then 60% of the adi
	added value for the ECM ARDL model t

ustment would take place within the first year. Another that it generates the cointegration equation

Estimated VAR Model and Granger Causality Test

Excluded	χ2	df	Probability	Excluded	χ2	df	Proba bility
Dependent Variable InEXPO _t InRem _t InODA _t All	6.93 2.79 5.29 12.98	InGDP _t 2 2 2	0.03 0.24 0.04 0.04	Dependent Variable InGdp _t InRem _t InOda _t All	2.66 4.28 1.29 7.95	InEXO _t 2 2 2 6	0.26 0.11 0.54 0.24
<section-header></section-header>		InRem _t 2 2 6		<text></text>	4.33 2.29 2.28 17.51	InODA _t 2 2 6	



Stability Tests

Inverse Roots of AR Characteristic Polynomial



The findings of this paper add to the existing evidence of the macroeconomic effects of remittance inflows, as well as exports which are in line with household-level studies and find that remittances improve the welfare of their recipients.

Policy Recommendations for Egypt to Enhance Economic Investment Through Migrant Remittances

Egypt can leverage the successful experiences of other nations in promoting the productive use of remittances by implementing the following policy recommendations:

1. Develop Comprehensive Guidelines for Promoting Remittances: Create detailed guidelines that outline rules and processes for encouraging remittances to be invested in local economic enterprises. Set realistic goals, methods, and timelines to assist Egyptian families in overcoming barriers to investment.

2. Enhance Financial and Social Institutions:

investments.

3. Reduce Transaction Costs:

send money home.

transactions.

4. Promote Information Dissemination:

families make informed decisions.

5. Establish Voluntary Codes of Conduct:

remittance process.

- Encourage financial institutions to offer attractive credit opportunities that channel remittances into productive Partner with social institutions to raise awareness about the benefits of investing remittances in local enterprises.
- Implement policies to lower the costs associated with remittance transfers, making it more affordable for migrants to **Collaborate with financial technology firms to improve money transfer technologies, ensuring faster and more secure**
- Provide clear and accessible information about the various transfer channels available, helping migrants and their
- Develop and promote voluntary codes of conduct for the fair transfer of funds to ensure transparency and trust in the







6. Develop Remittance-Related Financial Products: helping to protect their social welfare.

Issue ID cards or similar identification tools that enable domestic banks to offer services to Egyptian migrants in foreign markets.

7. Foster International Cooperation:

Work with the governments of host nations and international organizations to create processes that channel remittances and migrants' savings into productive uses. Establish bilateral agreements with host countries to facilitate the smooth transfer and investment of remittances.

8. Encourage Securitization of Remittance Flows: Develop financial instruments that allow for the securitization of remittance flows, providing a stable source of investment capital for critical industries. Offer incentives such as tax exemptions to encourage remittances to be invested in sectors with high potential for economic growth and job creation.

By adopting these policies, Egypt can significantly enhance the beneficial impact of remittances on its economic growth, creating a more prosperous environment for its citizens and leveraging the financial contributions of its migrant population.

Introduce savings and insurance products that cater to the needs of remittance-receiving households,