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THE EFFECT OF SAVINGS, INVESTMENT AND FOREIGN DIRECT INVESTMENT ON JORDAN ECONOMY (1980-2013)

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ABSTRACT

This study aimed to analyzing the long-term and short-term relationship between the savings, investment, and foreign direct investment on Jordan Economy for the period (1980-2013). The study employed model: used GDP as dependent variable and FDI, INV and SAV as independent variables. The stationarity of the data is checked through Augmented Dickey Fuller test and Phillips-Perron Test, and then Johansen co integration test and Vector error correction model (VECM) are employed for analysis. The study found that the series are not stationary in its levels and stationary in first difference. The results of Johansen co integration test revealed that the Jordan Economy (GDP) is significantly and positively co integrated with the savings (SAV), investment (INV) and foreign direct investment (FDI), which leads the way to run the VECM. The results from the VECM provide evidence for that not existence of long-run relationship between GDP and (SAV), (INV) and (FDI). The Wald test results revealed that there is no short-run causal relationship running from SAV and INV to GDP, but there is short-run causal relationship running from FDI to GDP.

KEYWORDS

Savings, Investment, Foreign direct investment, GDP, vector error correction model.

1. INTRODUCTION

The main macro-economic objectives are to reach sustainable economic growth, and increase the employment opportunities, and achieving price stability, due to this there is strong relations between economic growth and these variables (saving, and investment, and foreign direct investment (Yilmaz, 2014). Among the economists (classical, and Keynesian), Whether saving effect investment or gets cause by investment. Investment and Savings play a major role in achieving economic growth, by the adoption economic policies.

In classical school, an increase in savings will lead to a reduce the interest rates prompting investors demand more from the available funds and therefore to an increase in investments.

On other hand, Keynesian school argues that an increase in the investment leads to an increase in the output and income which will increase savings. (Ramakrishna, 2012).

The purpose of this study is to examine the effect of savings, investment and foreign direct investment on Jordan economy (1980-2013). Using cointegration and vector error correction model (VECM), to investigate the long run and short run relationships between these variables. The data obtained from annual reports of the Central Bank of Jordan (CBJ). The empirical tests have been carried out E-views software package was used in this study.

This study attempts to test the relationship between gross domestic product, investment, savings and foreign direct investment in Jordan in the long run.

The rest of the paper is organized as follows: The second section provides literature review, Section three provides the empirical results of the study, and final section contains the conclusion.

2. LITERATURE REVIEW

In economic literature there are many studies examined the effects of the savings, investment and FDI inflows on the economic growth such as: study of Agrawal et al. (2010). The relationship between savings and growth: Cointegration and causality: Evidence from Asia. This study found that there was unidirectional causality from economic growth to savings.

The study of Andrei and Huidumac-Petrescu (2013). Saving and economic growth: An empirical analysis for Euro area countries. using Johansen co-integration test. Study reveals that there is a significant unidirectional causality between the two macroeconomic variables from real GDP to the saving rate.

The study Tang and Ch'ng (2012). Multivariate analysis of the nexus between savings and economic growth in the ASEAN-5 Economies. Found that there was unidirectional causality from savings to economic growth in all ASEAN-5 economies.

The study Tang and Lean (2013). The role of savings on economic growth in Malaysia: A view from generalized variance decomposition analysis. Revealed that the relationship between economic growth and savings in Malaysia are stable and coalescing in the long run. Study Tang and Tan (2014). A revalidation of the savings-growth Nexus in Pakistan. result showed that savings have positively affected economic growth in both the short run and long run. The Granger results also show that savings Granger-cause economic growth.

On the contrary, study Tang and Chua (2012). The savings growth Nexus for the Malaysian economy: A view through rolling sub-samples. Granger causality results indicate that the relationship between savings and economic growth is bilateral.

In the study Gulmez and Yardımcıoglu (2013). BRICS ülkeleri ile Türkiye'nin ekonomik büyümesinde ulusal ve yabancı tasarrufların etkisi: Panel veri analizi. They found that Domestic and foreign savings had positive impact on economic growth.

There are many studies that examined the nature relationship between foreign direct investment and economic growth present different results. Some studies found that there is a positive impact of foreign direct investment on economic growth, as in (El-Wassal (2012), Soumia and Abderrezak (2013) and Gursoy et al. (2013).

Study El-Wassal (2012). Foreign direct investment and economic growth in Arab countries (1970-2008): An inquiry into determinants of growth benefits. Found that FDI inflows had positive impact on economic growth.

Study Soumia and Abderrezak (2013). The determinants of foreign direct investment and their impact on growth: Panel data analysis for AMU countries. Study noted that there was unidirectional causality from economic growth to domestic investment, while there was bidirectional causality between economic growth and FDI inflows.

Study Gursoy et al(2013). FDI and economic growth relationship based on cross-country comparison. Revealed that there was unidirectional causality from FDI inflows to economic growth in Azerbaijan, while there was bidirectional causality between economic growth and FDI inflows in Turkmenistan. While other studies noted that FDI had negative impact on economic growth, such as (Saqib et al. (2013), Ray, S., (2012), Rachdi and Saidi,(2011).

Saqib et al. (2013). Impact of FDI on Economic Growth of Pakistan. found that FDI had negative impact on economic growth.

Ray, S., (2012). Impact of Foreign Direct Investment on Economic Growth in India: A Co integration Analysis. Which indicated that there is a negative impact on economic growth in India.

Rachdi and Saidi,(2011). The Impact of Foreign Direct Investment and Portfolio Investment on Economic Growth in Developing and Developed Economies. The study found that the relationship between the investment portfolios and economic growth is negative and statistically significant.

3. EMPIRICAL RESULTS

We applied the unit root test to test whether the data is stationary or have a unit root; to do this we employ the Augmented Dickey-Fuller test and Phillips-Perron Test, in the second step we applied the cointegration test and we use vector error correction model Approach (VECM) to identify the long run equilibrium relationship between the variables also we use Wald test to identify the short run equilibrium relationship between the variables.

3.1 UNIT ROOT TEST (TESTING FOR STATIONARITY)

The meaning of stationarity is that both Mean and Variance are consistent for all time (t), the same holds for the $Cov(Y_t, Y_s)$, thus the correlation between any two different values depends on different time series for both values of (Y) (for $T \rightarrow S$). If the time series data is non-stationary the method of least squares become is not trusted, also if the data is not stationary the value of R-squared is high this make difficult to determine relationship between the variables. In this case the Unit Root Test and Cointegration Test are used to determine the nature of the relationship between the variables (alfawwaz, 2013).

The Augmented Dickey-Fuller (ADF) (Dickey & Fuller, 1981) test is used to determine the stationarity of time series. Table 1 reports the results of the ADF test. The results show that all the variables are nonstationary in level, therefore, the null hypothesis is accepted, but was rejected in 1st difference. As result of this all the variables are integrated of order I(1).

TABLE 1. UNIT ROOT TEST USING AUGMENTED DICKEY FULLER TEST

Variable	LEVEL		First difference	
	ADF	Critical value. (5%)	ADF	Critical value. (5%)
GDP	1.916596	-3.552973	-3.904315	-3.557759
FDI	1.422124	-3.595026	-4.889575	-3.595026
SAV	-3.177708	-3.557759	-4.628498	-3.568379
INV	-2.290375	-3.552973	-6.070568	-3.557759

TABLE 2: UNIT ROOT TEST USING PHILLIPS-PERRON TEST

Variable	LEVEL		First difference	
	ADF	Critical value. (5%)	ADF	Critical value. (5%)
GDP	1.637740	-3.552973	-3.922939	-3.557759
FDI	-2.277372	-3.552973	-5.204147	-3.557759
SAV	-2.173924	-3.552973	-7.376789	-3.557759
INV	-2.350847	-3.552973	-5.998024	-3.557759

Table 2 shows the results of the Perron test for level and first difference series. The null hypothesis of a unit root was accepted for all the variables but was rejected in 1st difference. The Perron test confirm the result of ADF test

Since the variables are integrated of the same order, the next step is to estimate the long-run equilibrium relationship by relationship using Johansen co-integration procedure.

3.2 CO-INTEGRATION TEST RESULT

In the second step the researchers applied the co integration test to identify the long run equilibrium relationship between the variables, using the Johansen (1988) and Johansen & Juselius (1990). Where: H_0 , there is no co integration between the two variables. Schwarz criterion is used to determine the specific lag length periods (lagged one period), and for choosing acceptable test of co integration. Since Johansen method is sensitive for autocorrelation in residuals, we use the Pantula principle (see Pantula, 1989) to determine the co-integration rank (see al-fawwaz, and Al-Sawai"e. 2012).

Having established that all variables are integrated of same order, we proceed to test for presence of co-integration among the variables. The co integration of the variable series requires the existence of a long-run relationship acts as a constraint on their movement. We employ Johansen co-integration test. It may be noted here that we are interested to check for the presence of co integrating relationship among the variable.

TABLE 3: LAG SELECTION ON VAR MODELS

Lag	FRE
0	1.88e+56
1	4.36e+53
2	4.19e+53*
3	7.15e+53
4	5.37e+53

The co integration approach requires the determination of the optimal lag structures by estimating a VAR model to carry out the task. The VAR models are estimated for 1, 2, 3, and 4 lags to select the optimal lag interval that minimizes the Final prediction error. The result of FRE reported in table 3 suggests 2 lags for co integration models.

Accordingly, the Johansen-Juselius Co integration test in Table 4, we present only the results of the null hypothesis that there does not exist co-integration against the alternative that there exists co integration. Starting with the null hypothesis that co-integration ($r=0$) does not exist among the variables, the trace statistic is well above the 95 per cent critical value for all the series. Hence, it rejects the null hypothesis of no co-integration in favor of existence of co integration for all the series. Turning to the maximum eigen value test, the null hypothesis that there does not exist co-integration is rejected at 5 per cent level of significance in favor of the specific alternative that there is at least one co-integrating vector for all series.

TABLE 4: RESULTS OF JOHANSEN COINTEGRATION TEST

Trace Statistic Result			
Hypothesized Number of Cointegrating Equations	Trace Statistic	5% Critical Value	Probability
None*	57.95868	47.85613	0.0043
At Most 1	28.89334	29.79707	0.0633
At Most 2	12.65467	15.49471	0.1293
At Most 3	0.700194	3.841466	0.4027

Maximum Eigen value Statistics Results.			
Hypothesized Number of Cointegrating Equations	Max-Eigenvalue Statistic	5% Critical Value	Probability
None*	29.06534	27.58434	0.0321
At Most 1	16.26867	21.13162	0.2096
At Most 2	11.92447	14.26460	0.1135
At Most 3	0.700194	3.841466	0.4027

The result shows that both Trace test and Max-Eigen test are statistically significant to reject the null hypothesis of $r = 0$ at 5% significance level. Therefore, only one long run cointegration relationship between GDP and others variables.

3.3 VECTOR ERROR CORRECTION MODEL (VECM) RESULT

Since there is co-integration, we apply VECM model to evaluate the short run. The results VECM models are presented in table (5).

TABLE 5: RESULTS OF VECTOR ERROR CORRECTION MODEL

variables	Coefficient	Std. Error	t-Statistic	Prob.
c(1)	0.046455	0.039733	1.169190	0.2554
c(2)	0.468291	0.201512	2.323883	0.0302
c(3)	-0.240452	0.370584	-0.648846	0.5235
c(4)	-9623165	35018384	-0.274803	0.7862
c(5)	-0.728483	0.384359	-1.895318	0.0719
c(6)	0.126194	0.233715	0.539948	0.5949
c(7)	1.055693	0.361843	2.917542	0.0082
c(8)	1371011.	34661543	0.039554	0.9688
c(9)	0.085157	0.408165	0.208633	0.8367
c(10)	3.88E+08	2.64E+08	1.468589	0.1568

The VECM equation for the dependent variable GDP is as follows:

$$D(GDP) = C(1) * (GDP(-1) + 0.307051507075 * FDI(-1) + 159438799.704 * INV(-1) + 3.81666765229 * SAV(-1) - 14885830181.5) + C(2) * D(GDP(-1)) + C(3) * D(FDI(-1)) + C(4) * D(INV(-1)) + C(5) * D(SAV(-1)) + C(6) * D(GDP(-2)) + C(7) * D(FDI(-2)) + C(8) * D(INV(-2)) + C(9) * D(SAV(-2)) + C(10)$$

GDP = Dependent variable

FDI, INV, SAV = Independent variable

C (1) = Coefficient of co integrating equation (long-term causality)

C (2), C (3), C (4), c(5), c(6), c(7), c(8) and C (9) = Coefficient of co integrating equation (short-term causality).

C (10) = Constant / intercept

From the VECM equation, the C(1) is the coefficient of co integrating equation.

$$C(1) * (GDP(-1) + 0.307051507075 * FDI(-1) + 159438799.704 * INV(-1) + 3.81666765229 * SAV(-1) - 14885830181.5)$$

from which the residual is taken for developing the error correction (EC) term and from the EC term the long-run causality is developed. The results of EC model is presented in table (5). C (1) is the residual at two period lag of co integrating vector between GDP and others variables. The EC term is not negative and is not significant at 1%, which implies that all variables haven't long-run causality on GDP. The result thus shows that there not exists a long-run causality between FDI, SAV, and INV to GDP.

On the other hand, from the VECM the short-run causality from FDI, SAV, and INV to GDP is examined using the coefficient C (3) to C (9), the results are presented in table (6) using Wald test.

To identify the short-run causality from FDI, SAV, INV to GDP the study used chi-square value of Wald test. If the coefficients C (3) and C (7), c(4) and c(8), c(5) and c(9) jointly influence the GDP, then there exists a short-run causality from variables to GDP. The results of Wald test is presented in table 6. It is inferred that the H_0 i.e $C(4) = C(8)$, $C(5) = C(9) = 0$ of lag two cannot jointly influence the GDP. It is inferred that H_0 cannot be rejected, since the χ^2 is $> 5\%$. Hence, the H_0 1b "there is no short-run causality between GDP and INV, SAV" is accepted, which implies that C(4), c(5), c(8) and c(9) jointly impacts to zero. In other words, all these having two lag cannot cause GDP, and therefore it is concluded that there is no short-run causality running from INV and SAV to GDP, but there is short-run causality running from FDI to GDP.

since EC term is not significant negatively, whereas there is no short-run causality running from SAV, INV to GDP but there is short-run causality running from FDI to GDP.

TABLE 6: RESULTS OF WALD TEST

TABLE 6: RESULTS OF WALD TEST				
Variable	Wald Test statistic	Value	Df	Prob.
FDI	F Statistics	4.781219	(2, 21)	0.0194
	Chi-square	9.562438	2	0.0084
Null Hypothesis Summary:C(3)=C(7)=0				
Normalized Restriction (=0)		Value	Std. Err.	
C(3)		-0.240452	0.370584	
C(7)		1.055693	0.361843	
Null Hypothesis Summary:C(4)=C(8)=0				
Variable	Wald Test statistic	Value	Df	Prob.
INV	F-statistic	0.038889	(2, 21)	0.9619
	Chi-square	0.077777	2	0.9619
Normalized Restriction (=0)		Value	Std. Err.	
C(4)		-9623165.	35018384	
C(8)		1371011.	34661543	
Null Hypothesis Summary:C(5)=C(9)=0				
Variable	Wald Test statistic	Value	Df	Prob.
SAV	F-statistic	1.796868	(2, 21)	0.1904
	Chi-square	3.593736	2	0.1658
Normalized Restriction (=0)		Value	Std. Err.	
C(5)		-0.728483	0.384359	
C(9)		0.085157	0.408165	

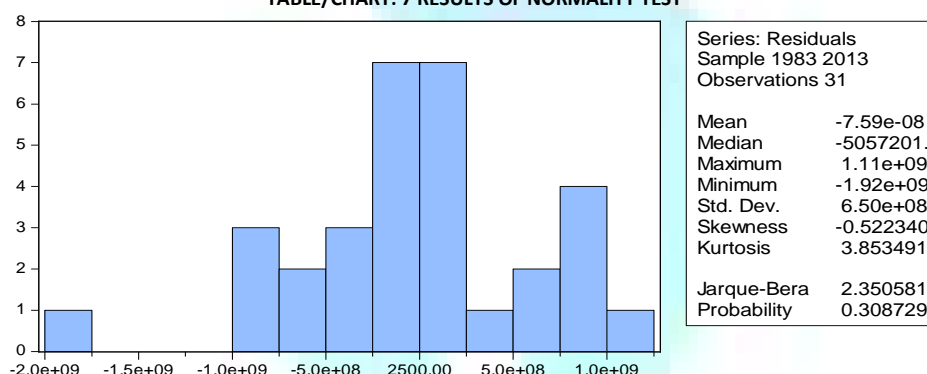
3.4 MODEL SELECTION AND DIAGNOSTIC CHECK

The model used in the study is subject to diagnostic check to assess whether the model was correctly specified. The selection criterion among the two models was based on three methods.

Firstly, the residual of the model should be normally distributed, and secondly, the model should be able to capture the autoregressive conditional heteroscedasticity (ARCH) effect and thirdly, the model should not have any serial correlation.

The results from the table 7 show that the residuals for the model applied are normally distributed, since the probability of Jarque-Bera statistics is more than 5% and therefore, the H₀ "residuals are normally distributed" is accepted.

TABLE/CHART: 7 RESULTS OF NORMALITY TEST



Secondly, the H₀ "there is no heteroskedasticity effect" is tested and the result from the table 8 shows that the value of test statistics (Obs*R²) is more than 0.05. Hence, the H₀ is rejected implying that the model have heteroskedasticity effect.

TABLE 8: RESULTS OF HETEROSKEDASTICITY TEST

Heteroskedasticity Test: ARCH			
F-statistic	0.477077	Prob. F(2,26)	0.6259
Obs*R-squared	1.026576	Prob. Chi-Square(2)	0.5985

Finally, "there is no serial correlation effect" is tested for the model and the probability value of observed Chi-Square >5% and hence the H₀ is accepted, indicating that there is no serial correlation effect among the selected variables (table 9).

TABLE 9: RESULTS OF SERIAL CORRELATION

Breusch-Godfrey Serial Correlation LM Test:			
F-statistic	0.292155	Prob. F(2,19)	0.7499
Obs*R-squared	0.924903	Prob. Chi-Square(2)	0.6297

4. CONCLUSION

The results of Error Correction Model show that:

The main findings in this study were: Johansen co-integration test result shows evidence of co-integration implying that there is no long run relationship running from savings, investment and FDI to GDP in Jordan. Savings and domestic investment have not short run significant impact on the Jordanian economy, while FDI has positive and significant impact on the Jordanian economy.

The study investigated the causal relationship which running from savings and investment to the growth in Jordan over the years (1980 -2013). The degree of investment in any economy really affect on the extent of saving. Savings and investments are imperative for development given that they play significant role in bringing about capital required to increase production process, harnessing and transforming the resources of the country. It is obvious that the level of saving required to raise enough capital for investment is yet to be achieved due to myriad of bottlenecks, among which includes improper mobilization of saving by the banking sector, poor banking habits of many Jordanian, insecurity of lives and property which have for sometime retarded smooth economic operation and consequently low income generation, which in turns adversely affect capital accumulation.

The results of the study were consistent with this principle, the study shows not significant impact running from saving and investment to growth in Jordan during the study period, while the study found a significant effect of foreign investment on growth in the short run in the same period.

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